

Fig.52

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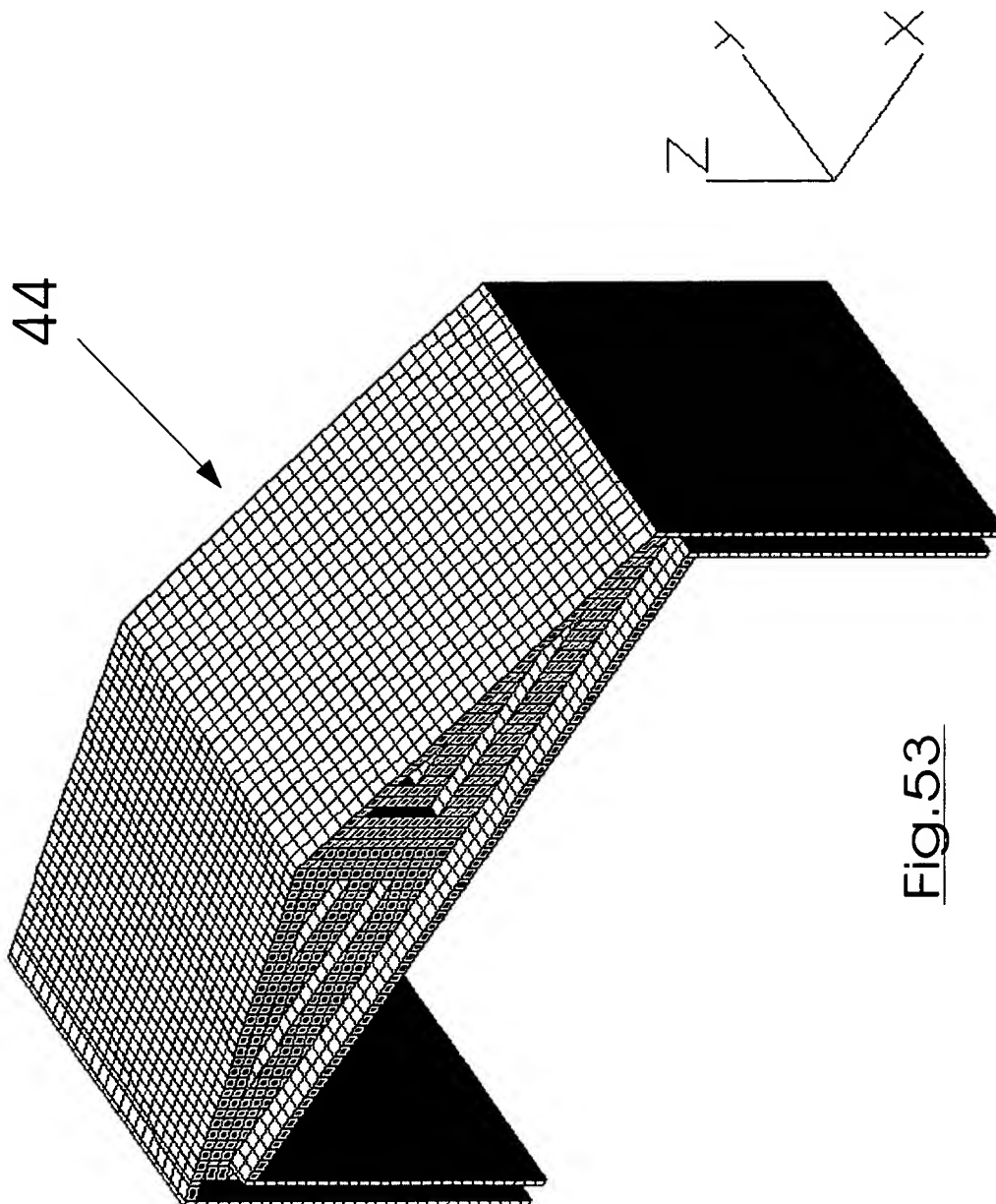


Fig. 53

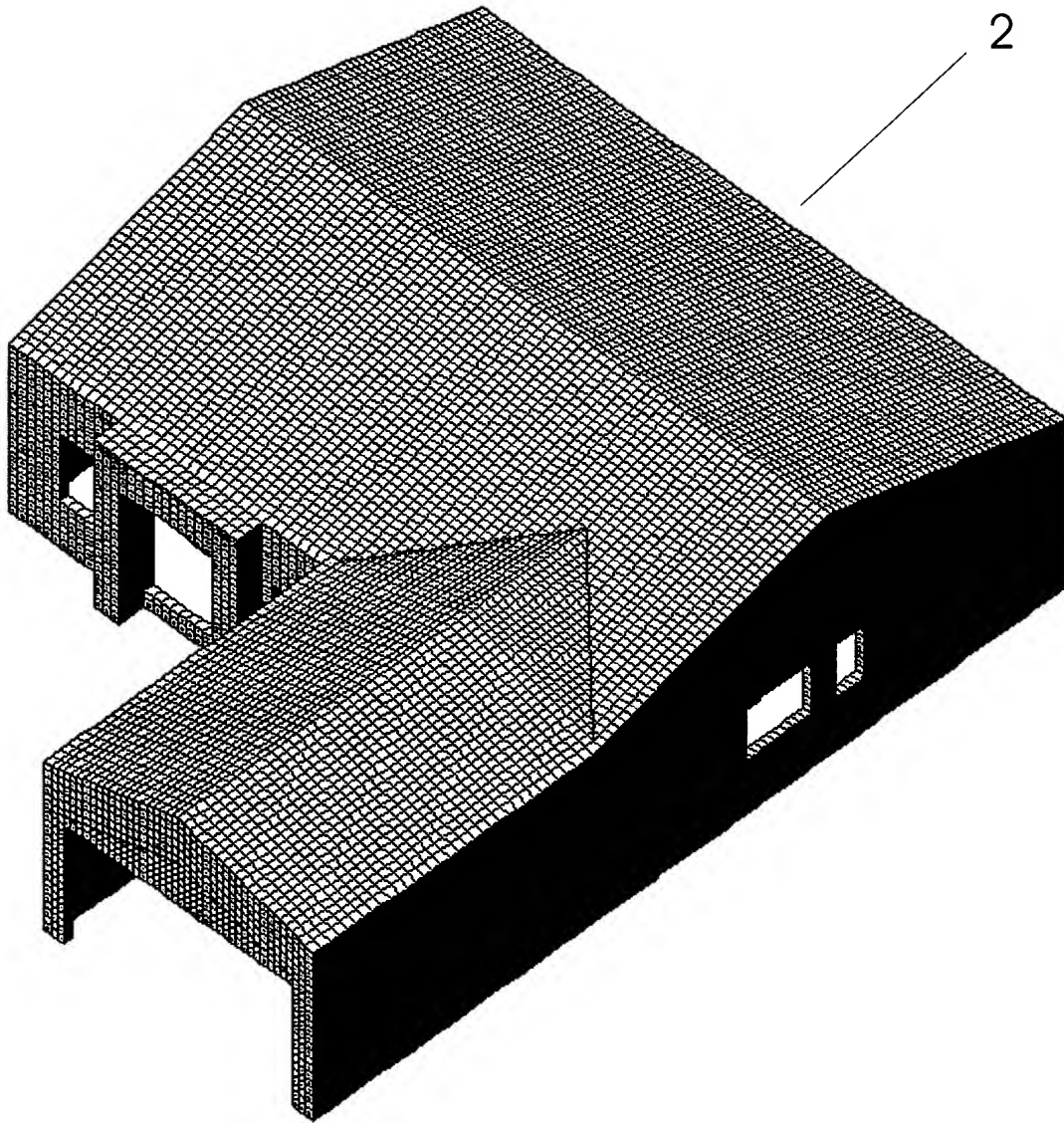


Fig. 58

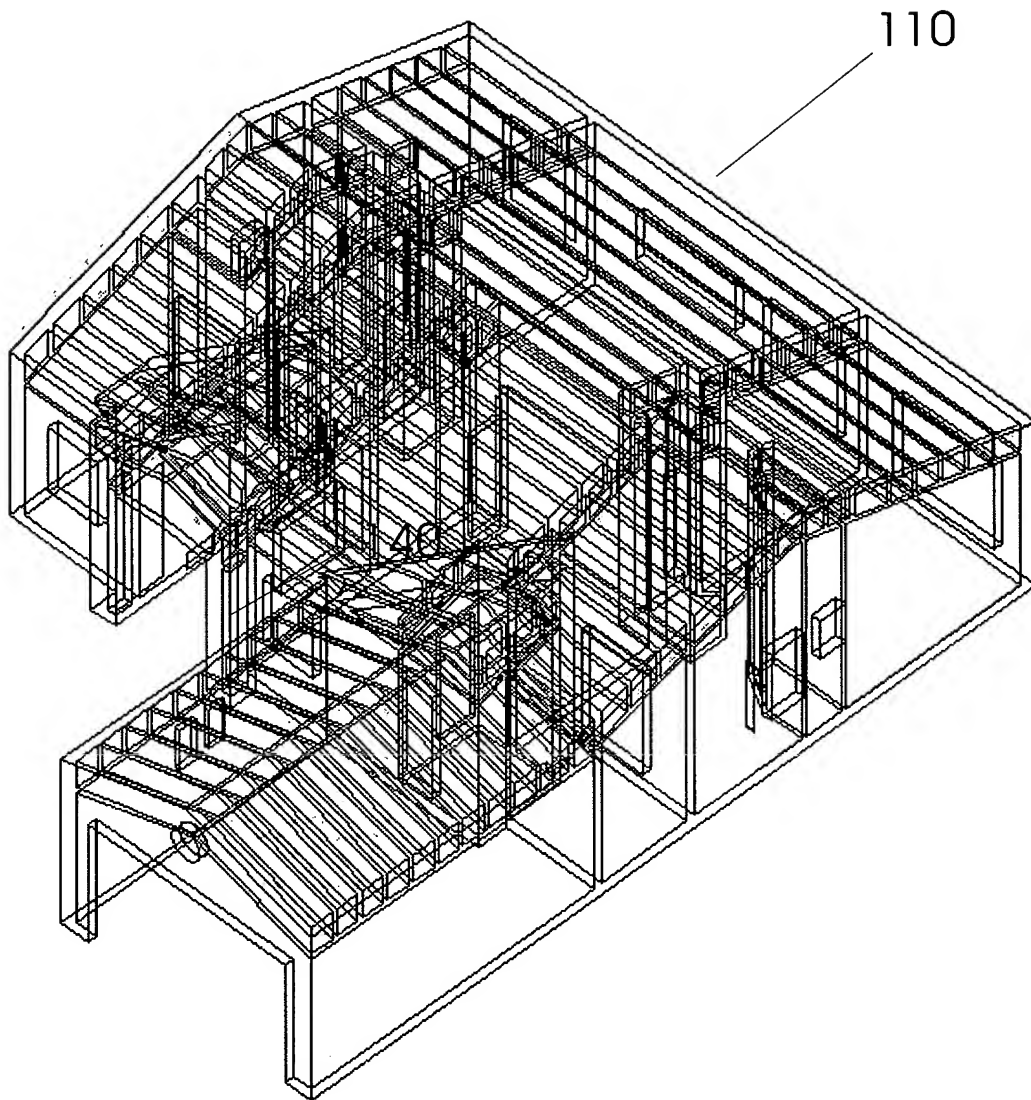


Fig.59

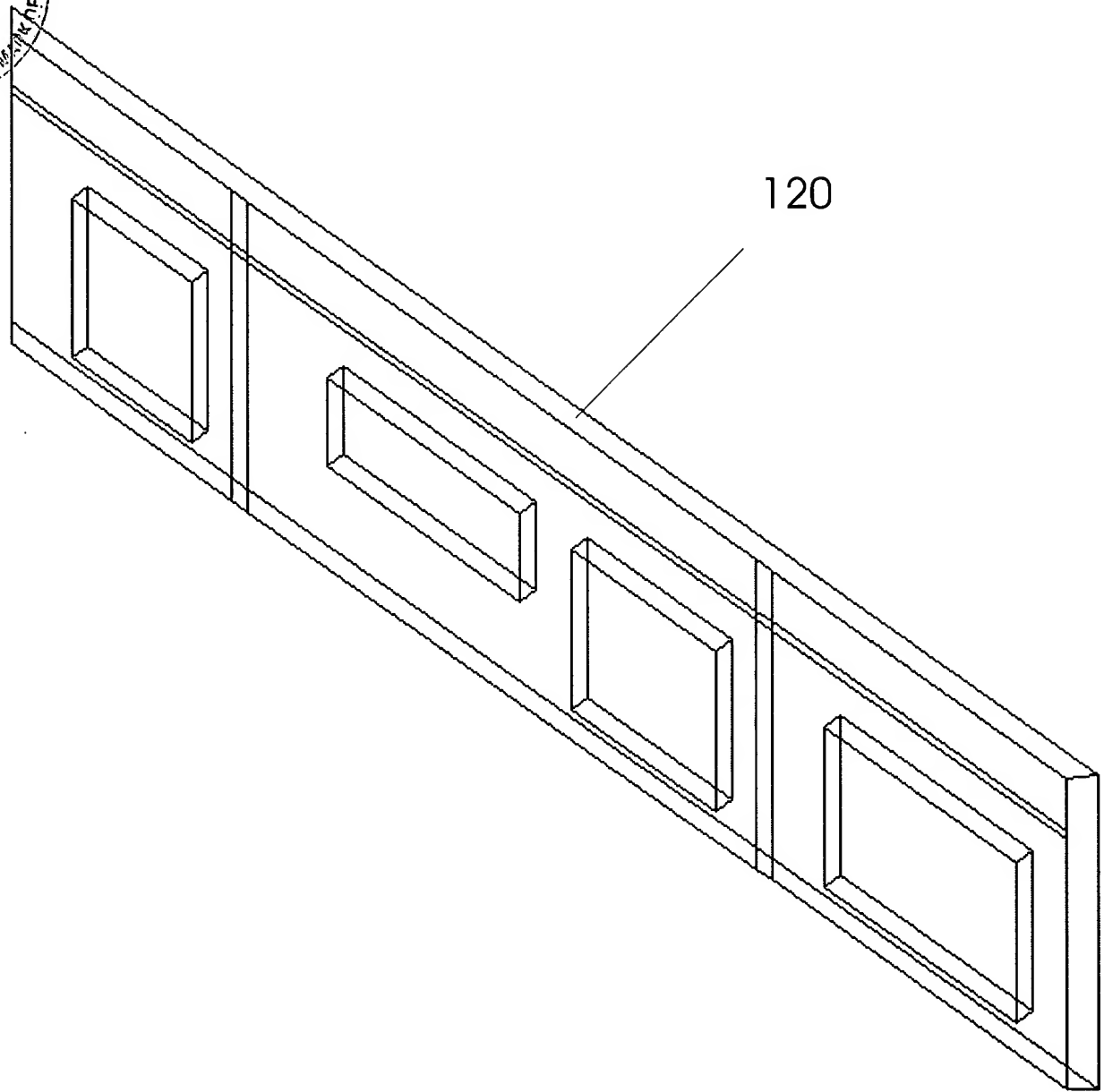
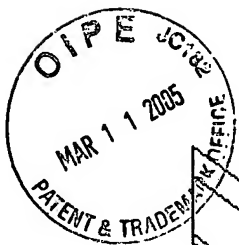


Fig.60

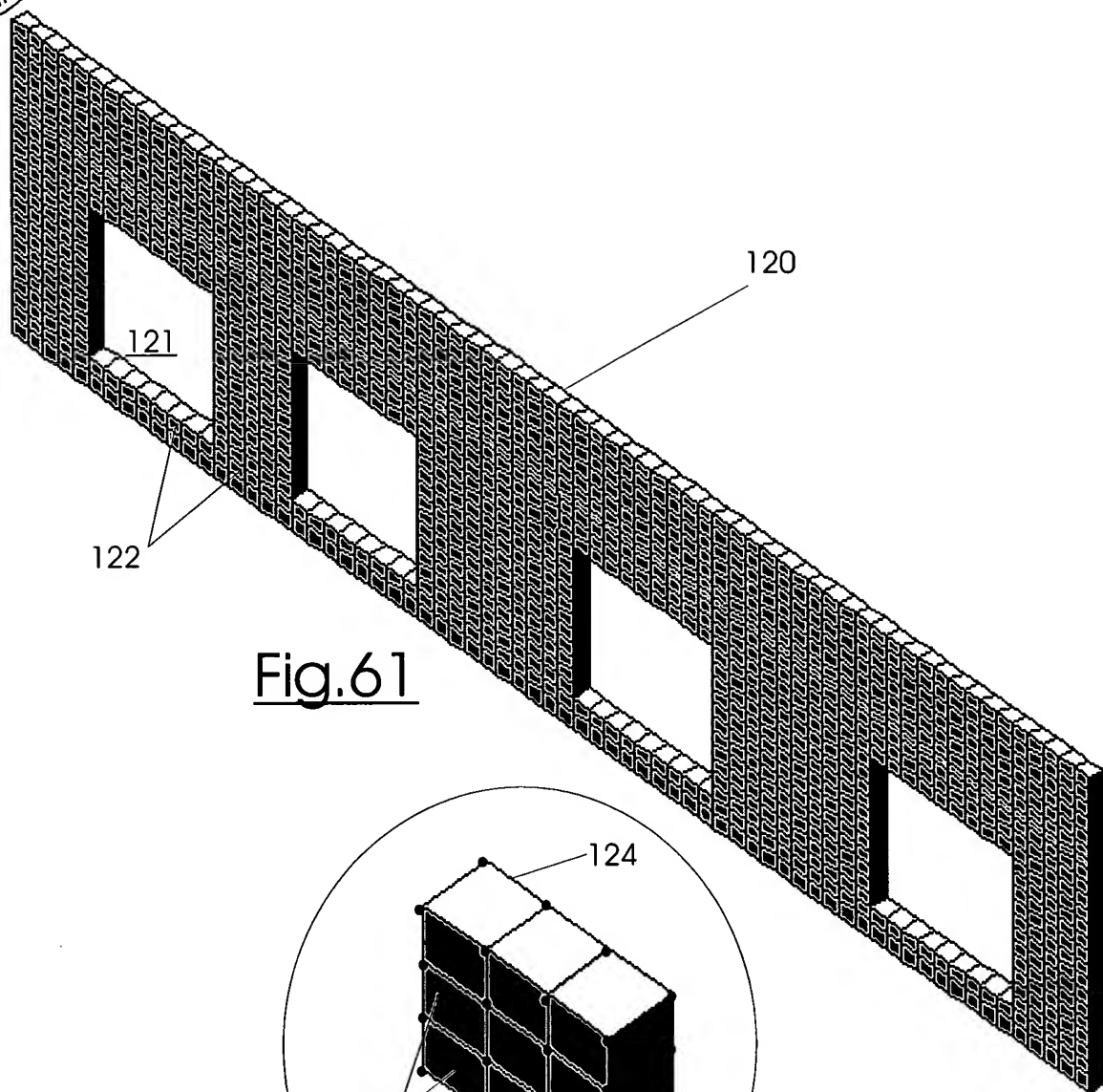


Fig. 61

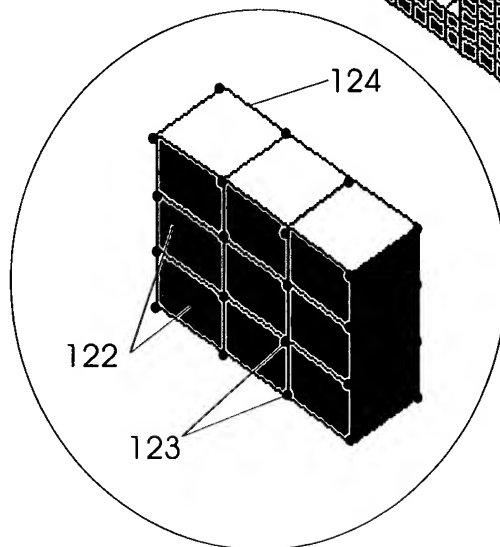


Fig. 61A

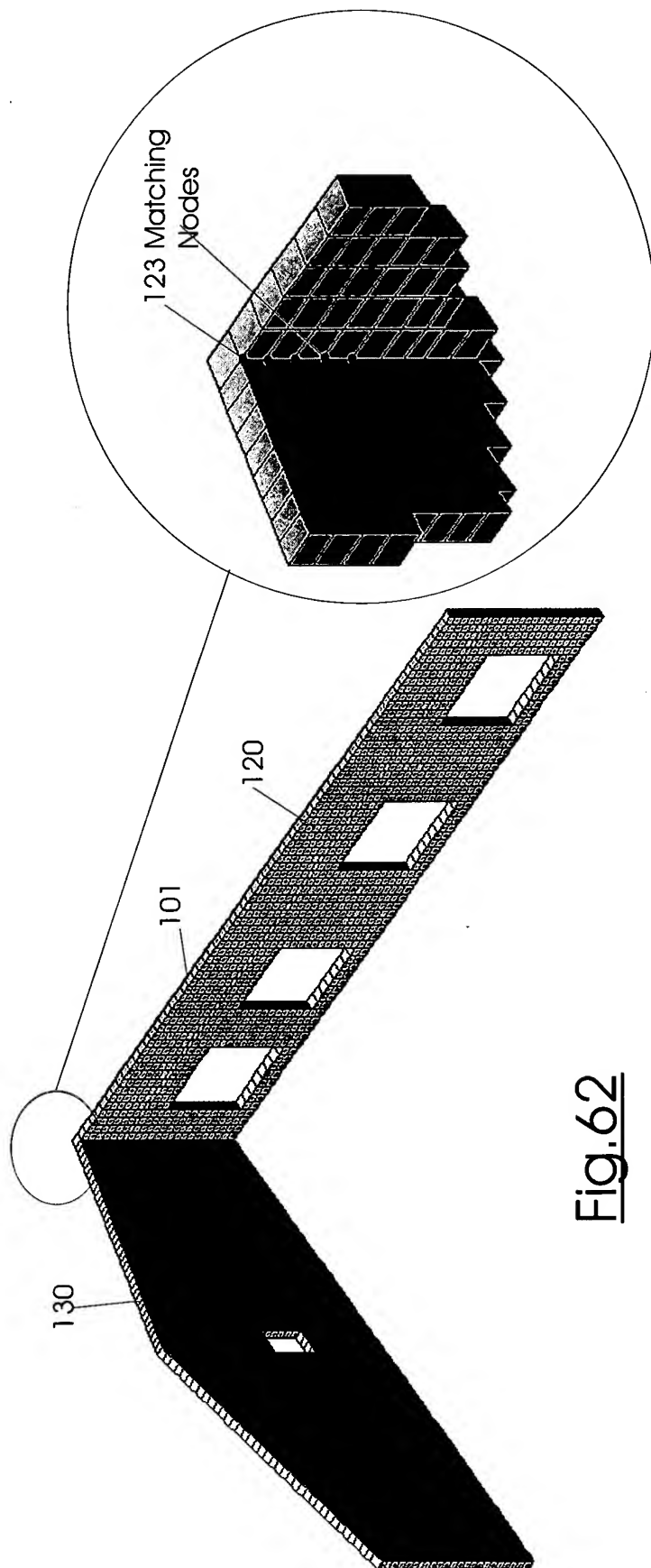


Fig.62

Fig.62A

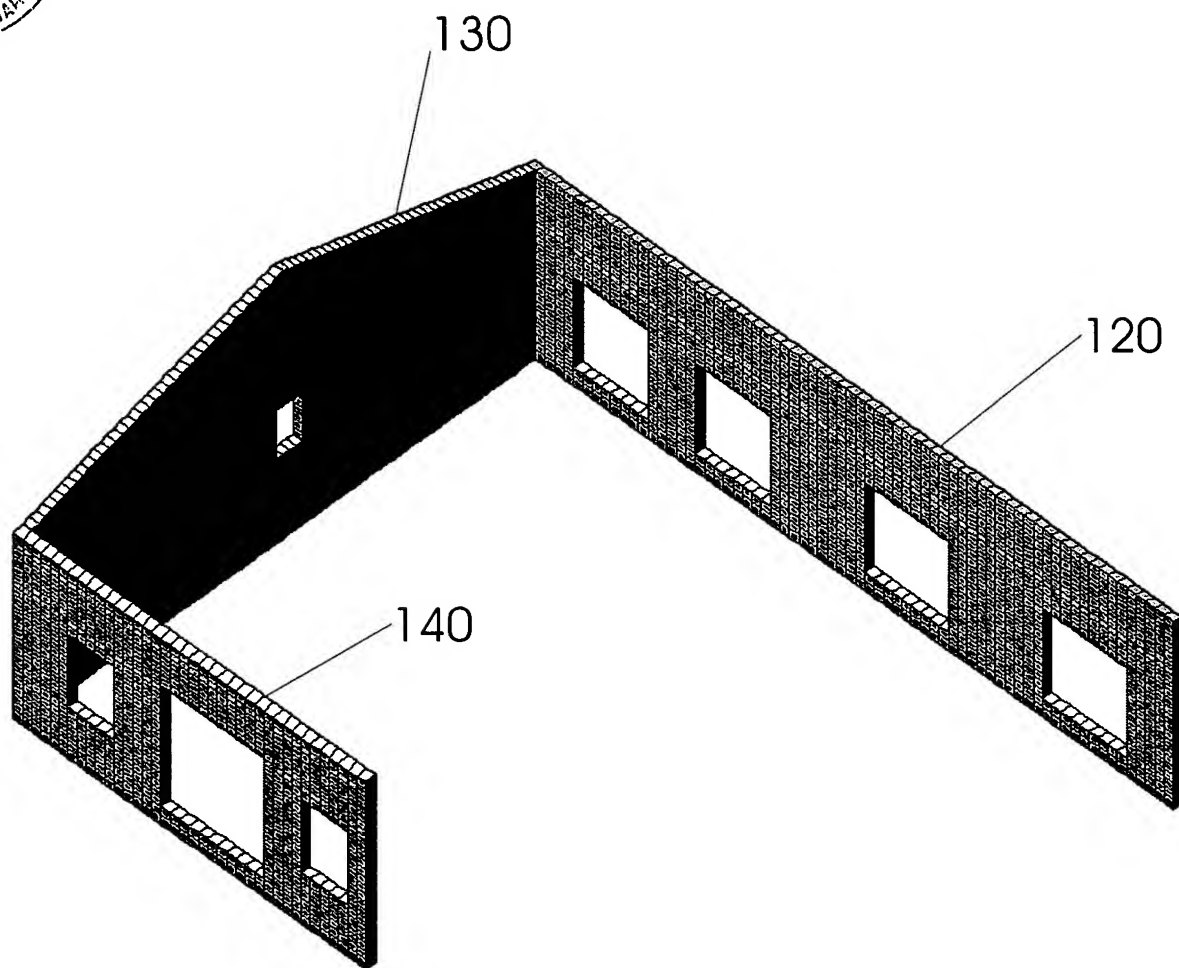


Fig.63

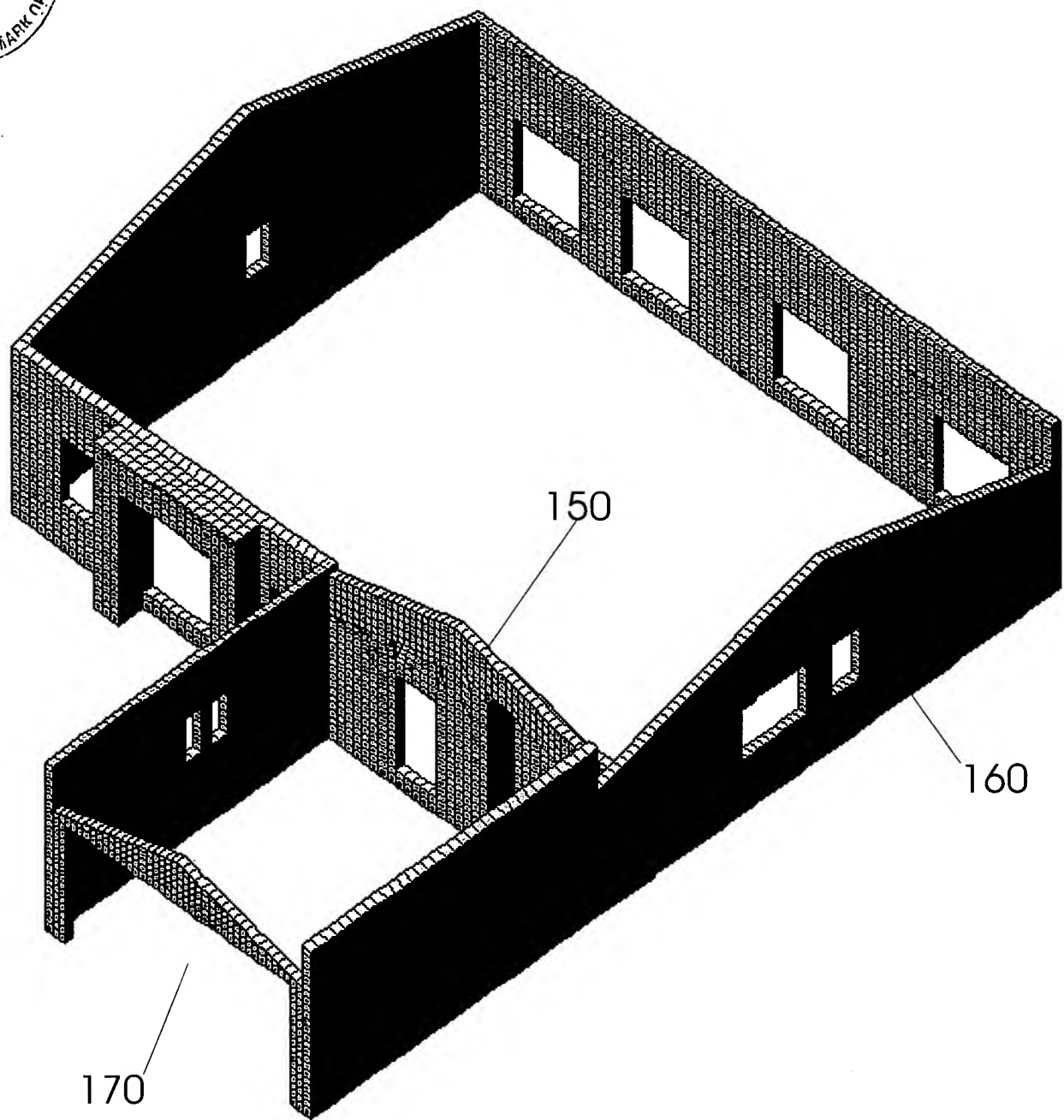
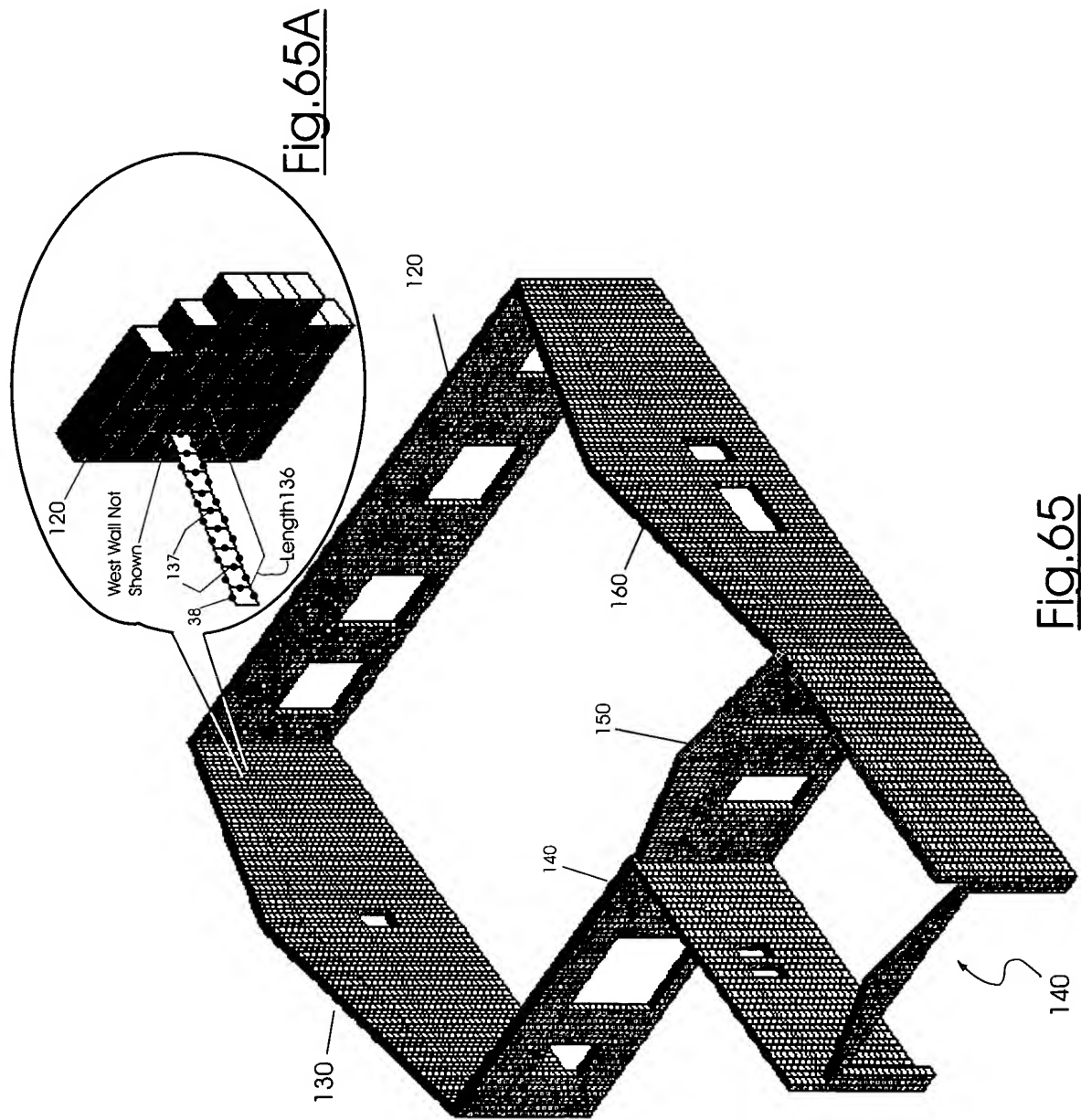


Fig.64



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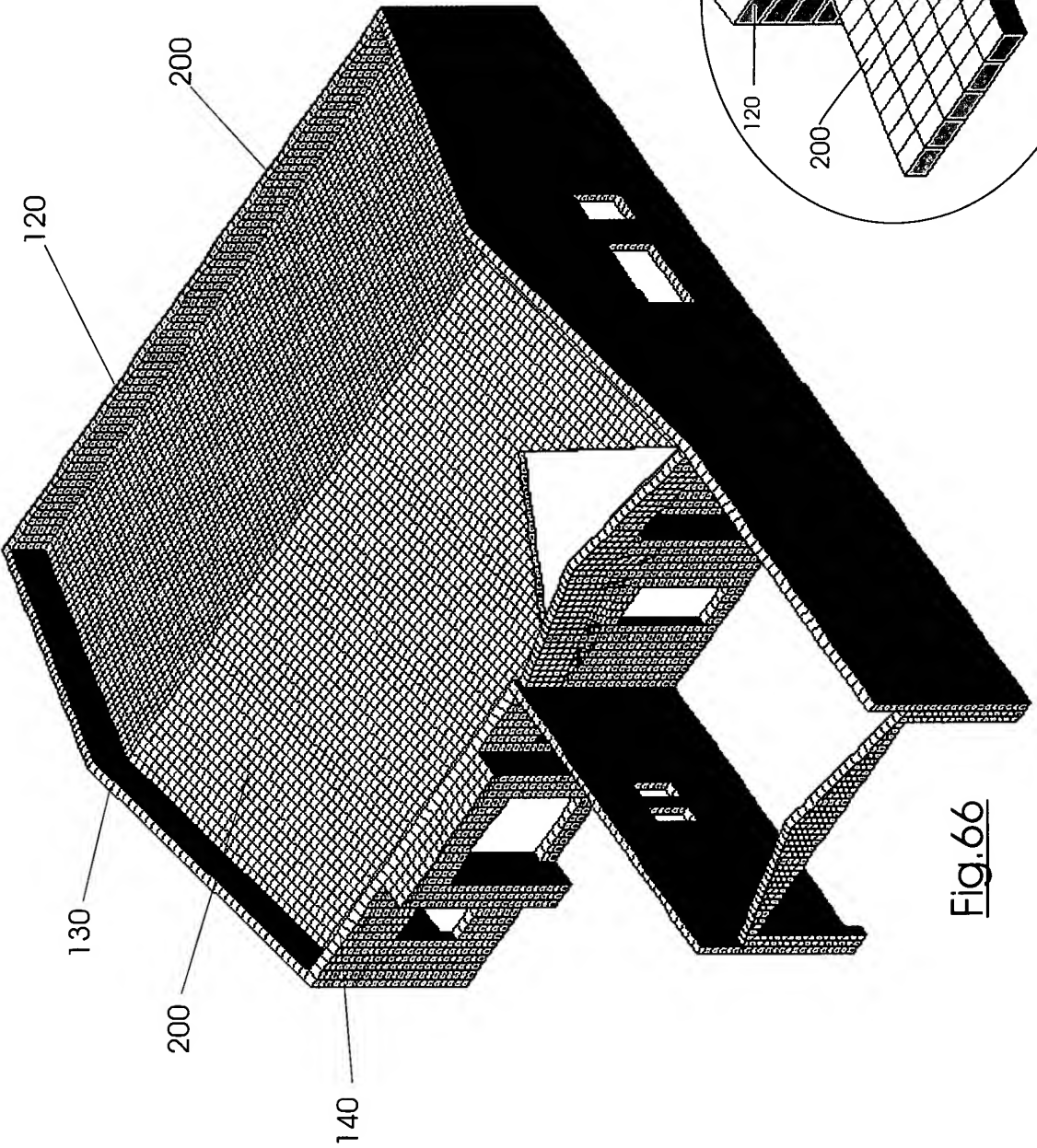


Fig. 66

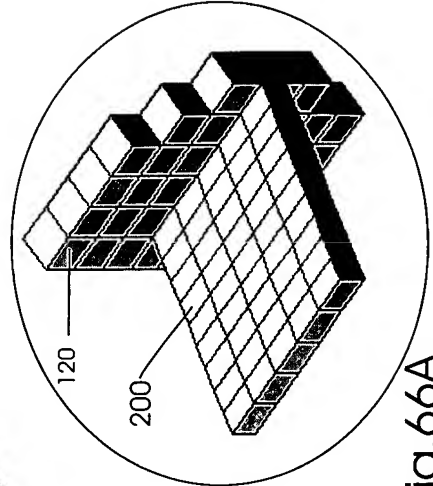


Fig. 66A

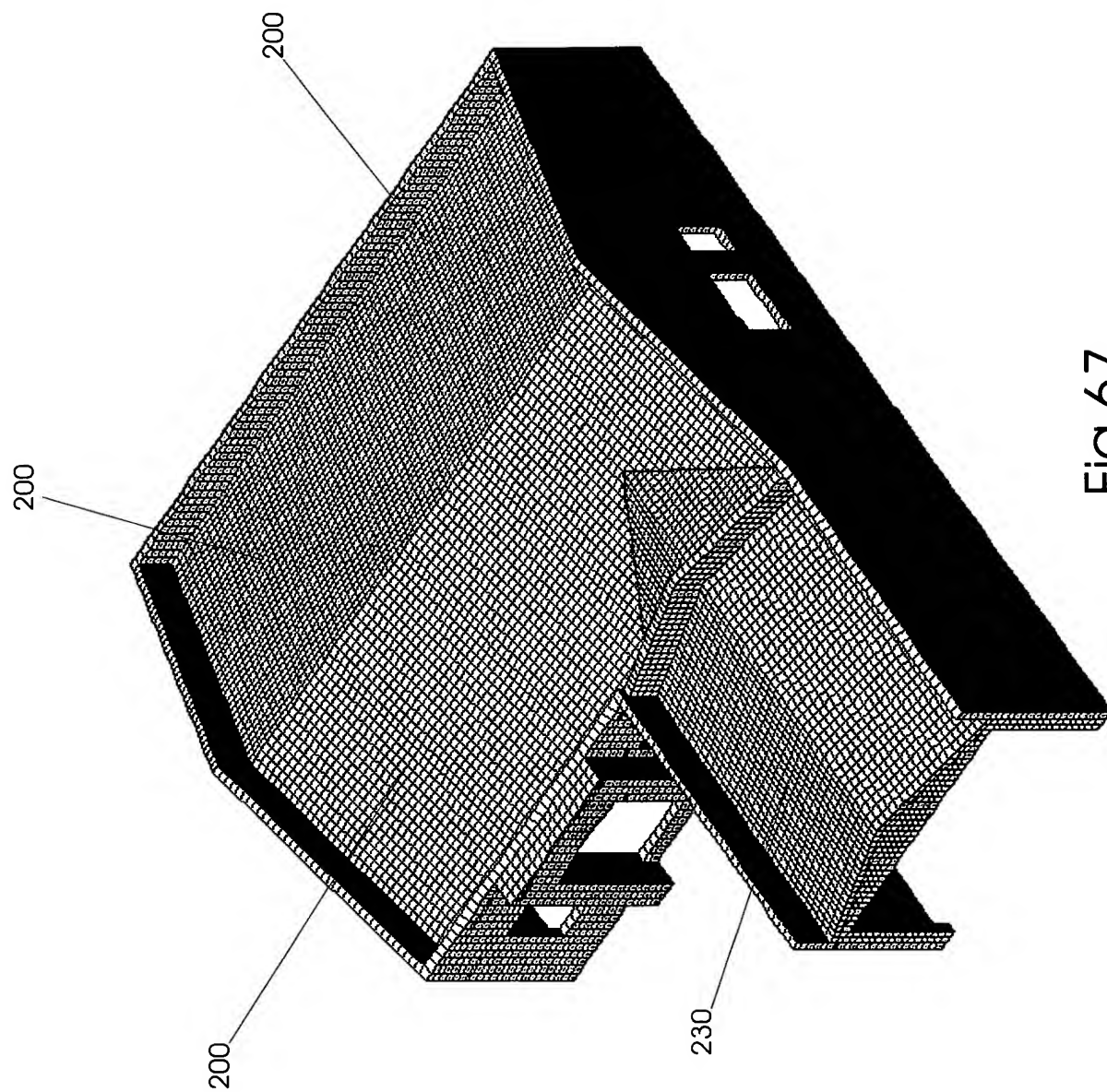


Fig.67

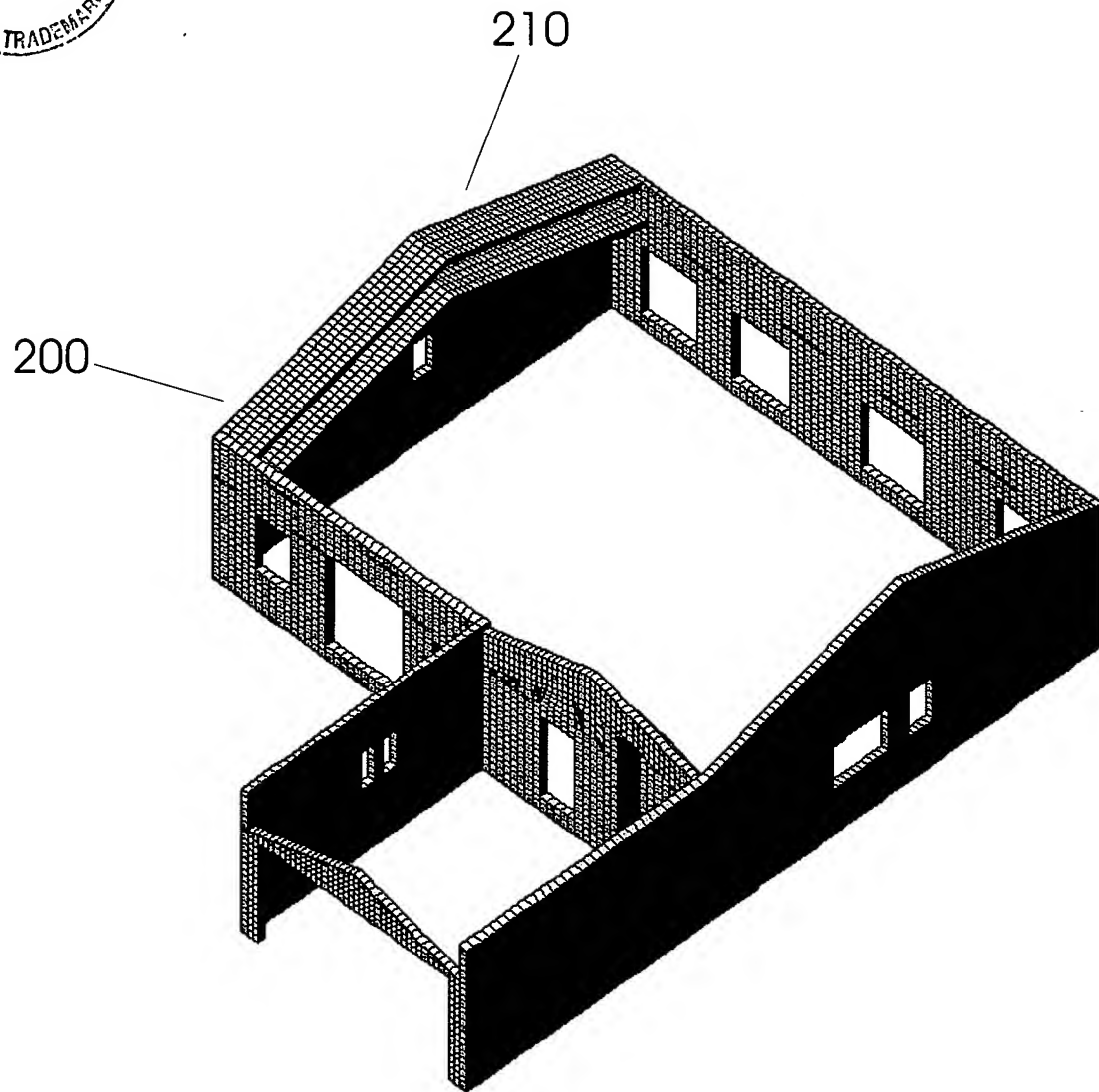


Fig.68

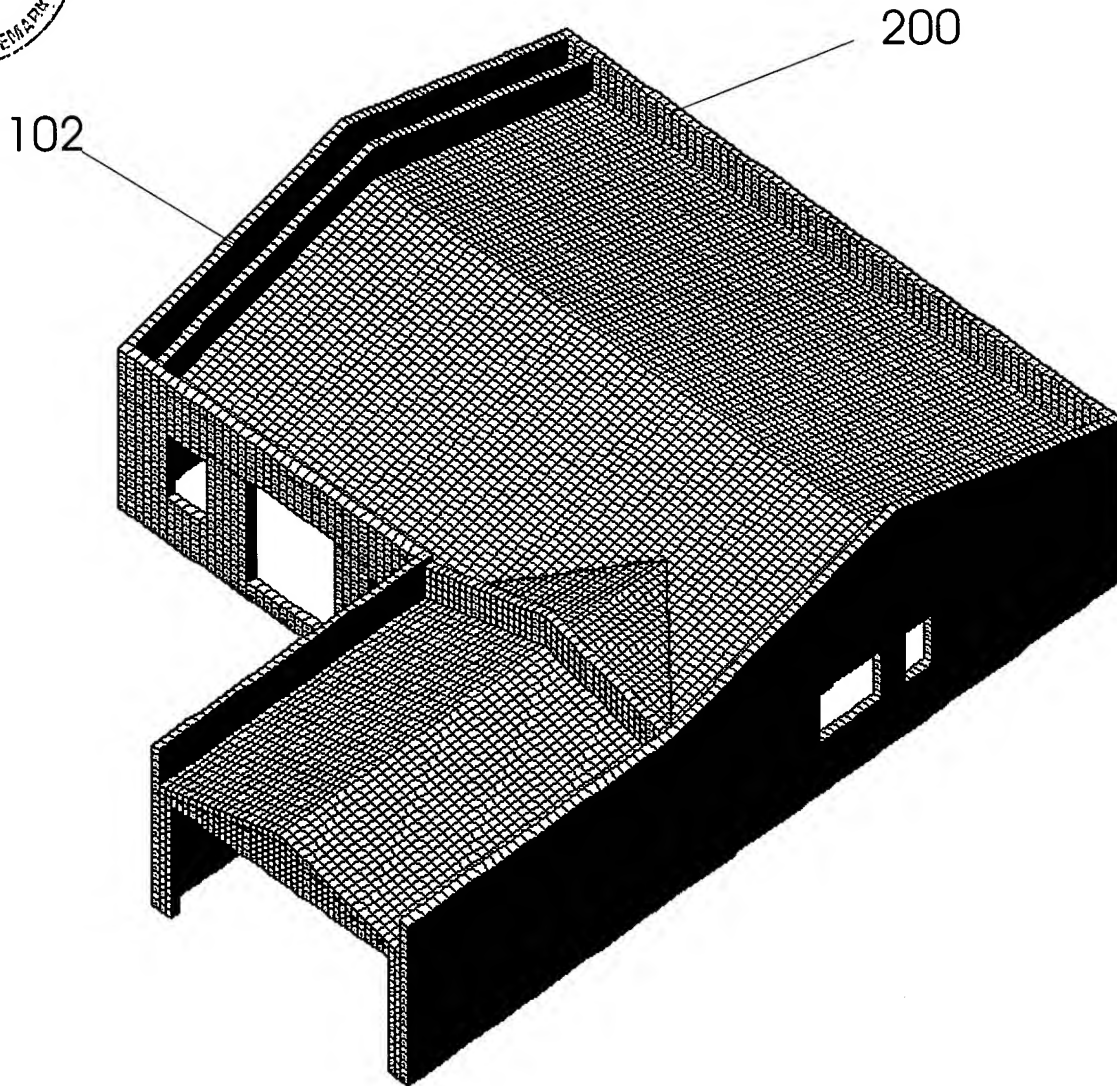


Fig.69

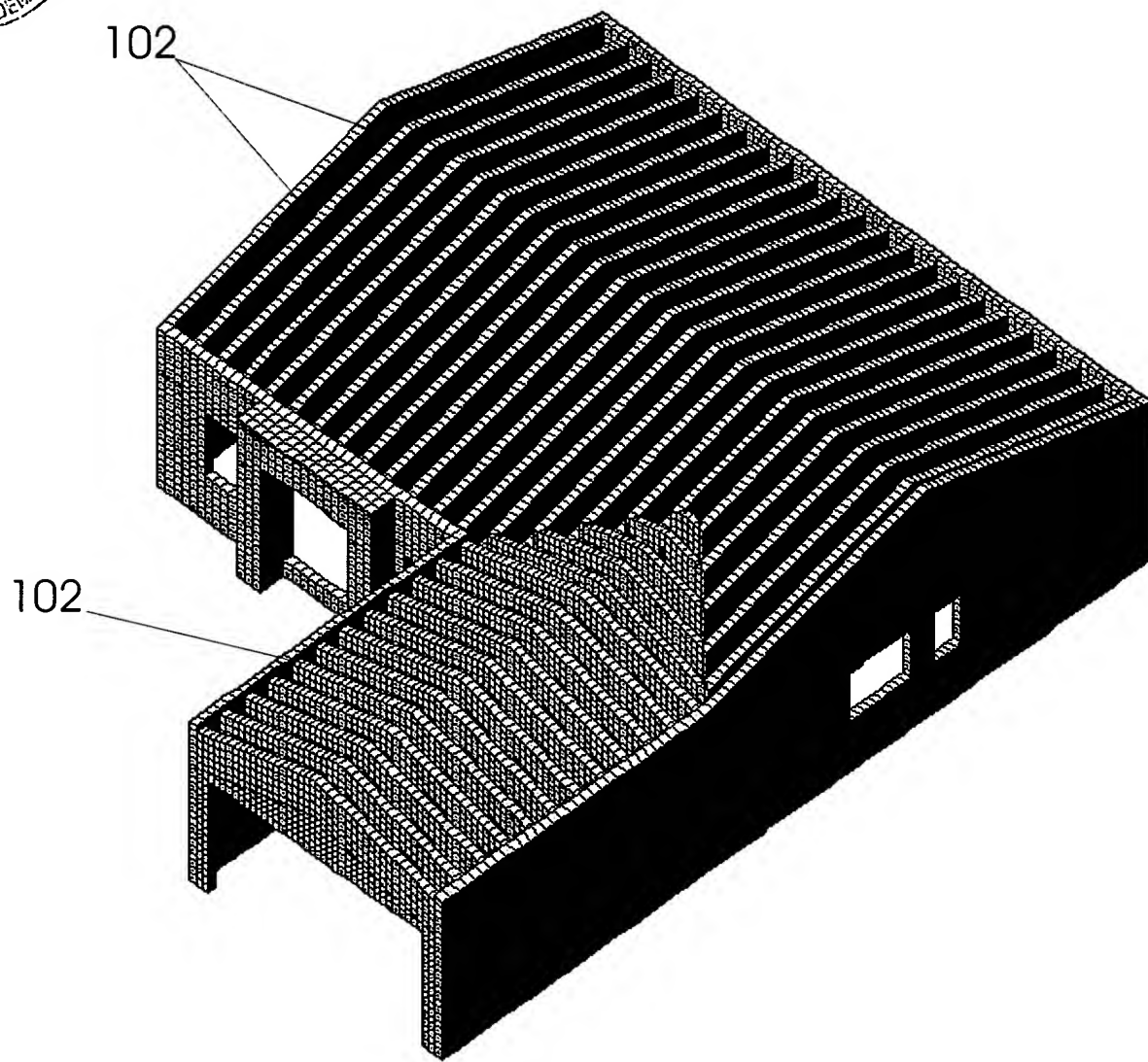


Fig.70

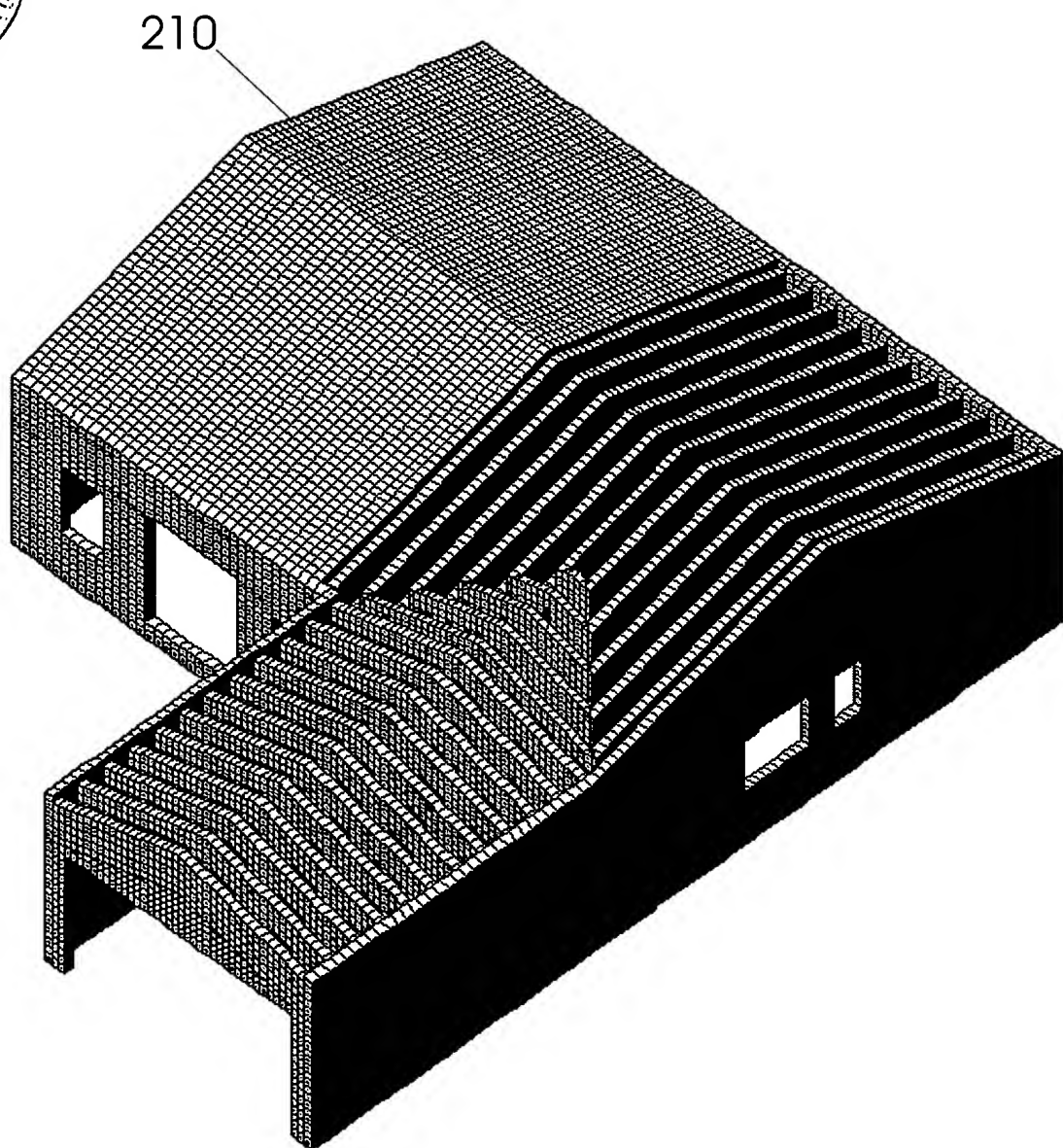


Fig. 71

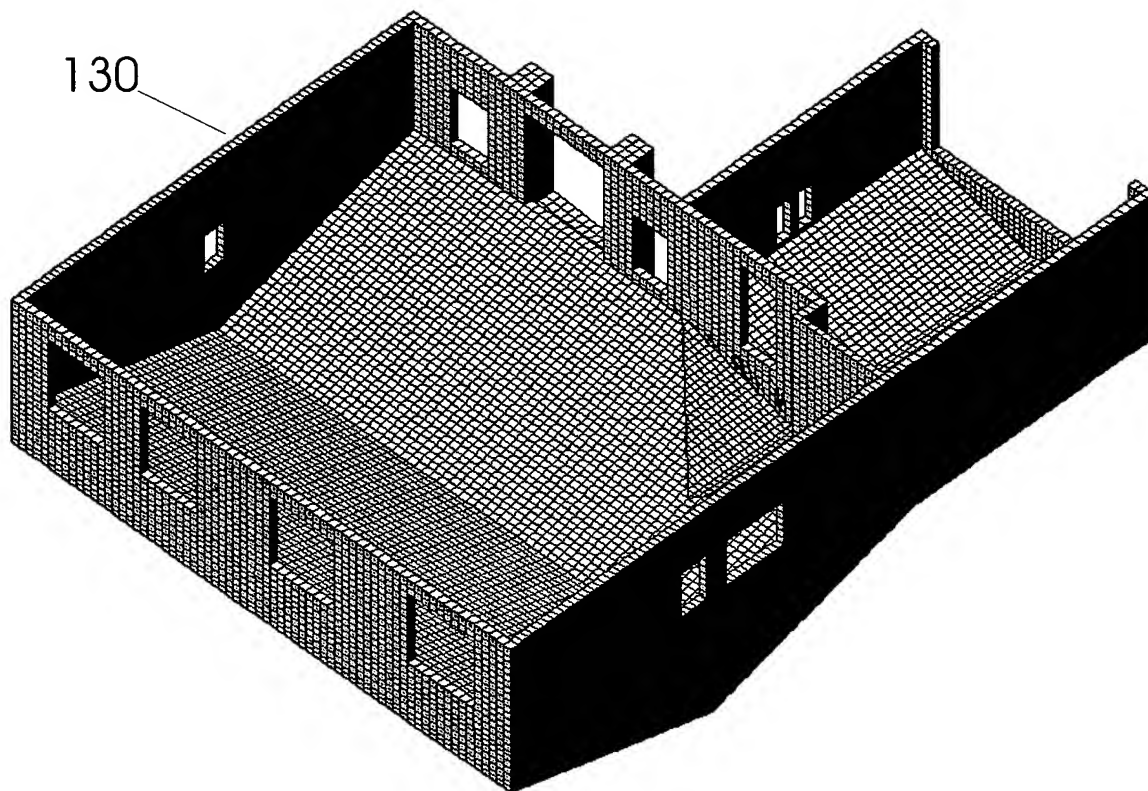


Fig.72

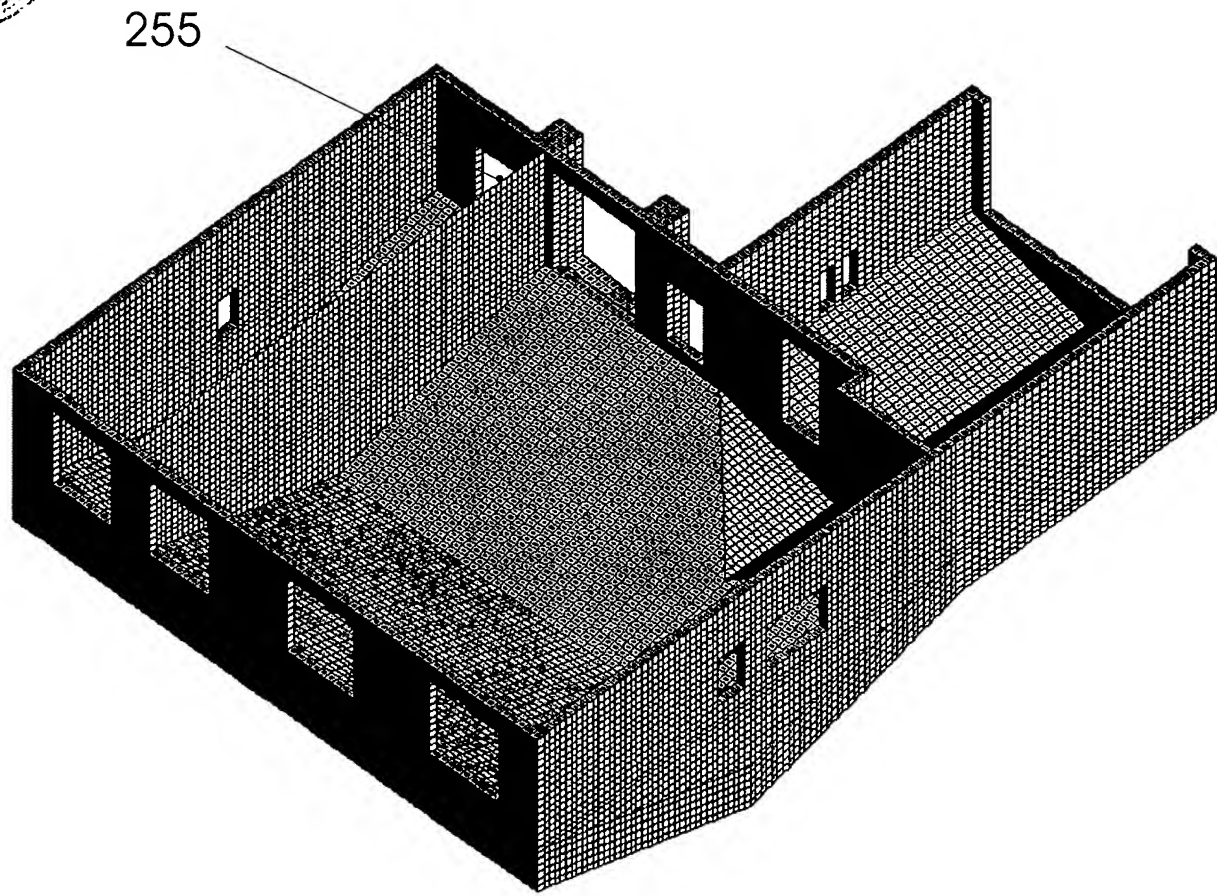


Fig.73



260

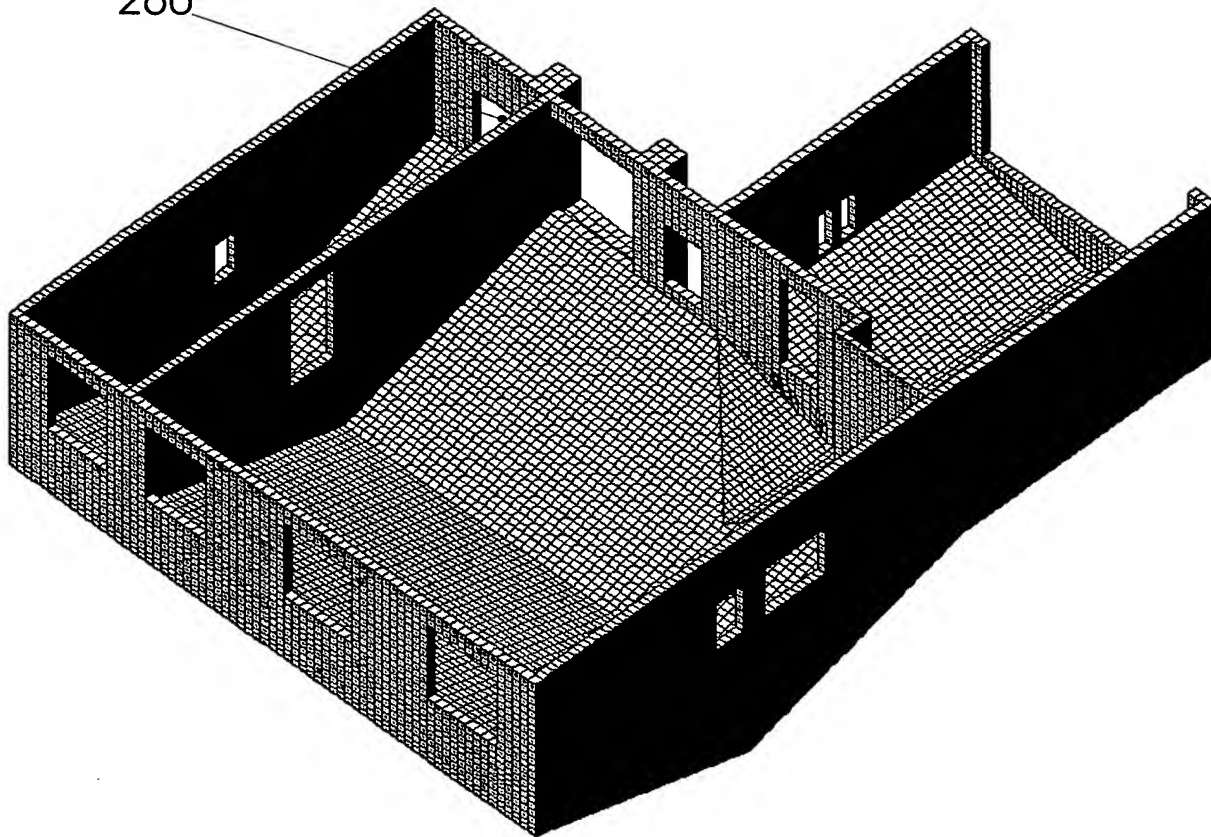


Fig.74

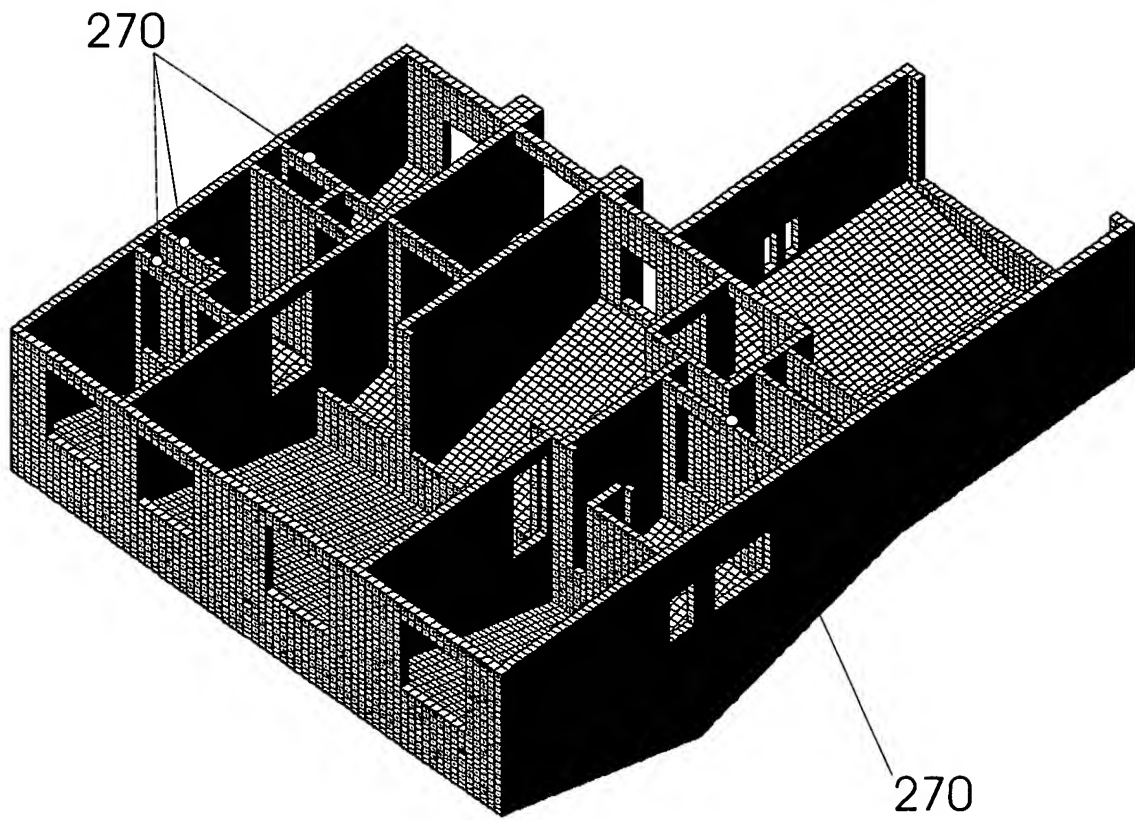


Fig.75

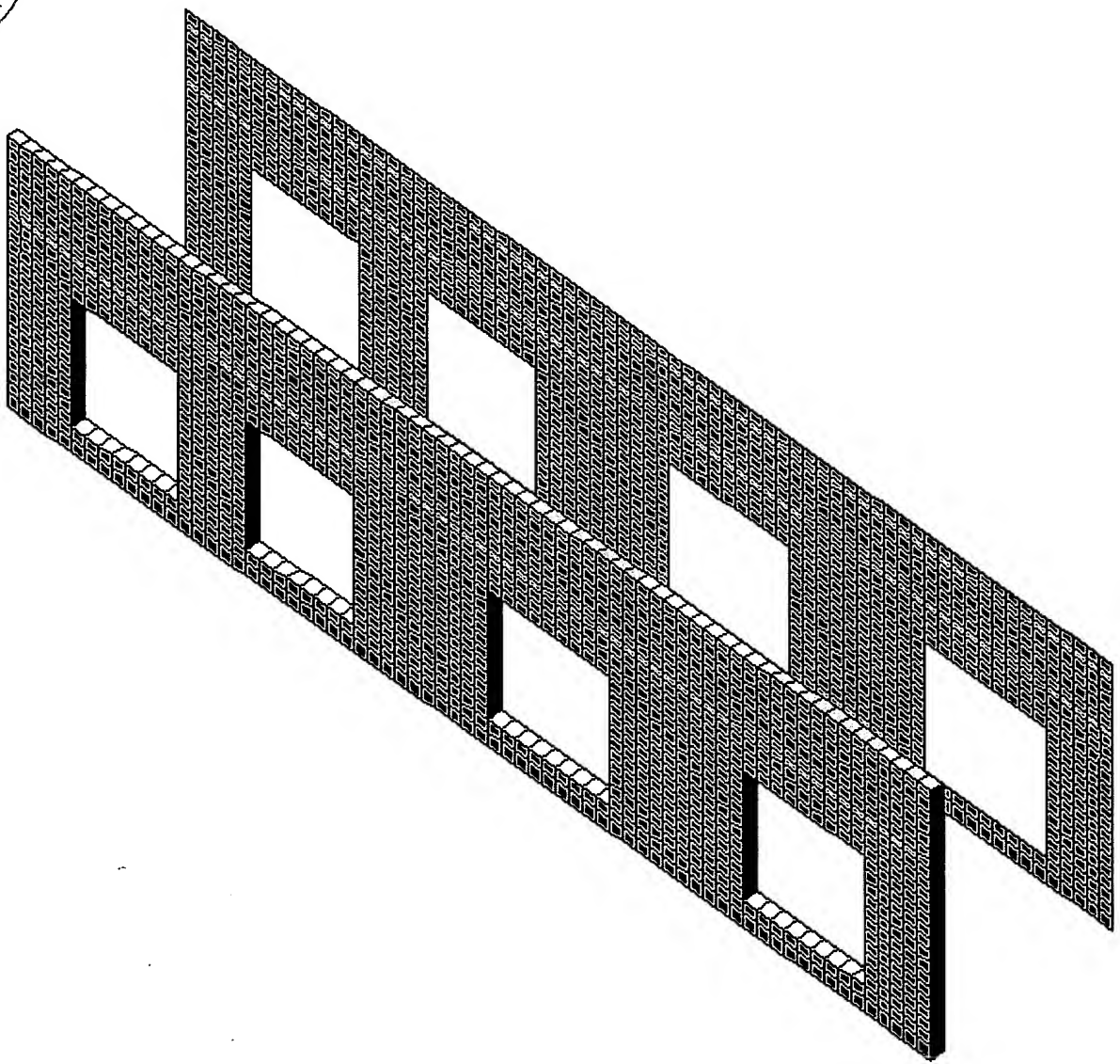


Fig.76

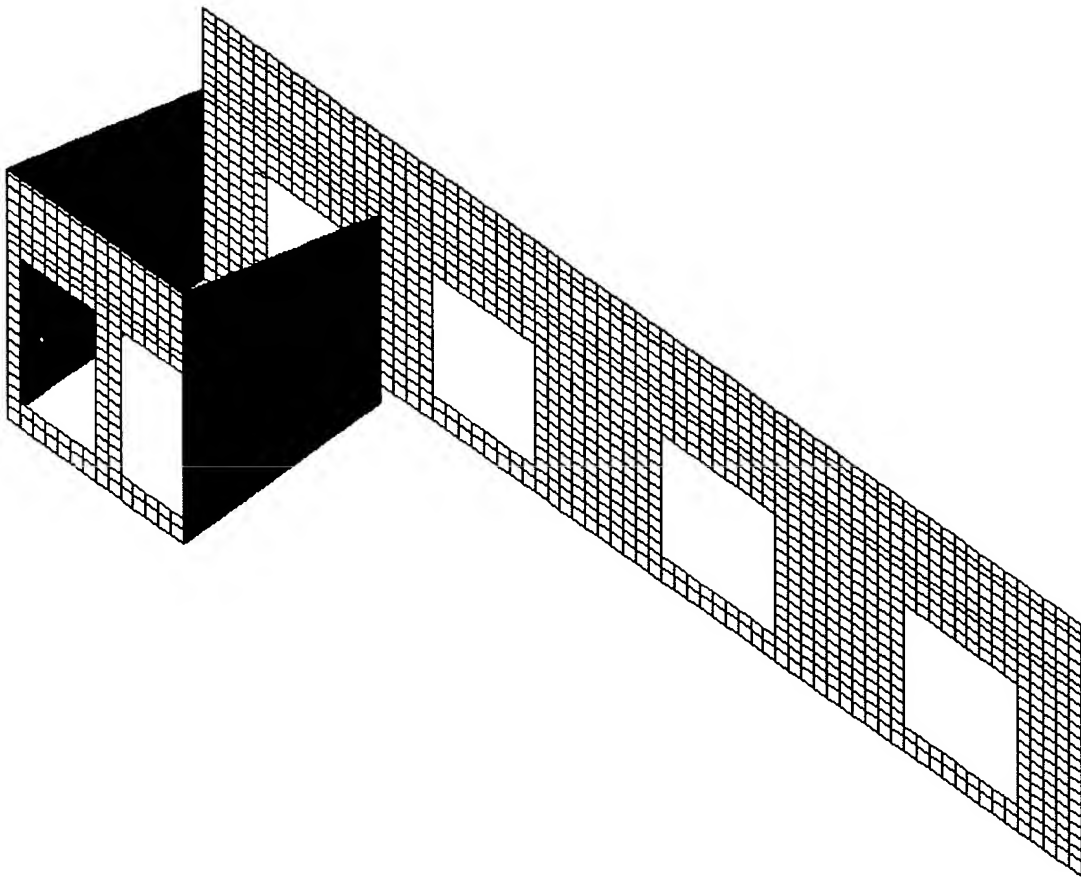


Fig.77

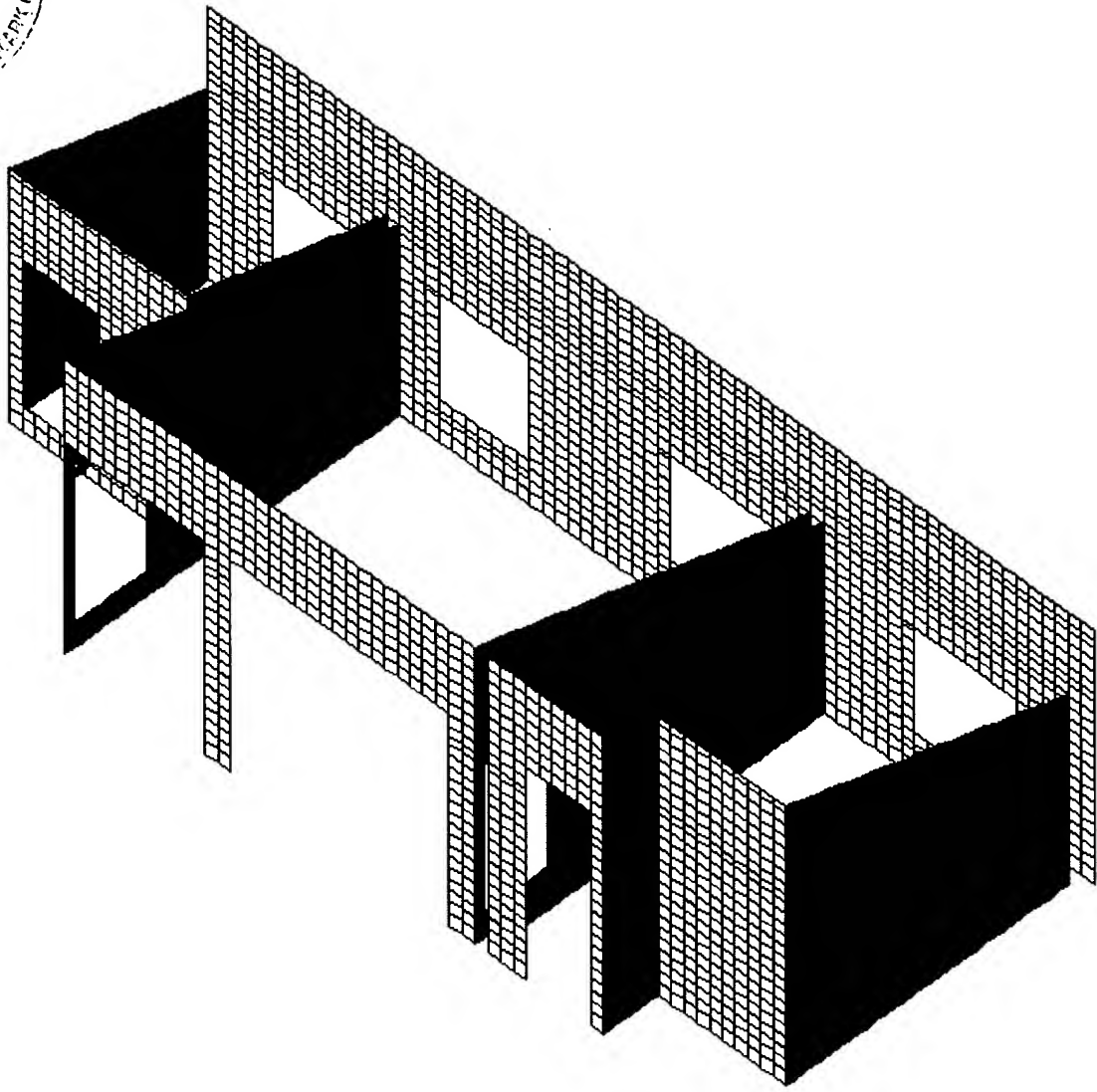


Fig.78

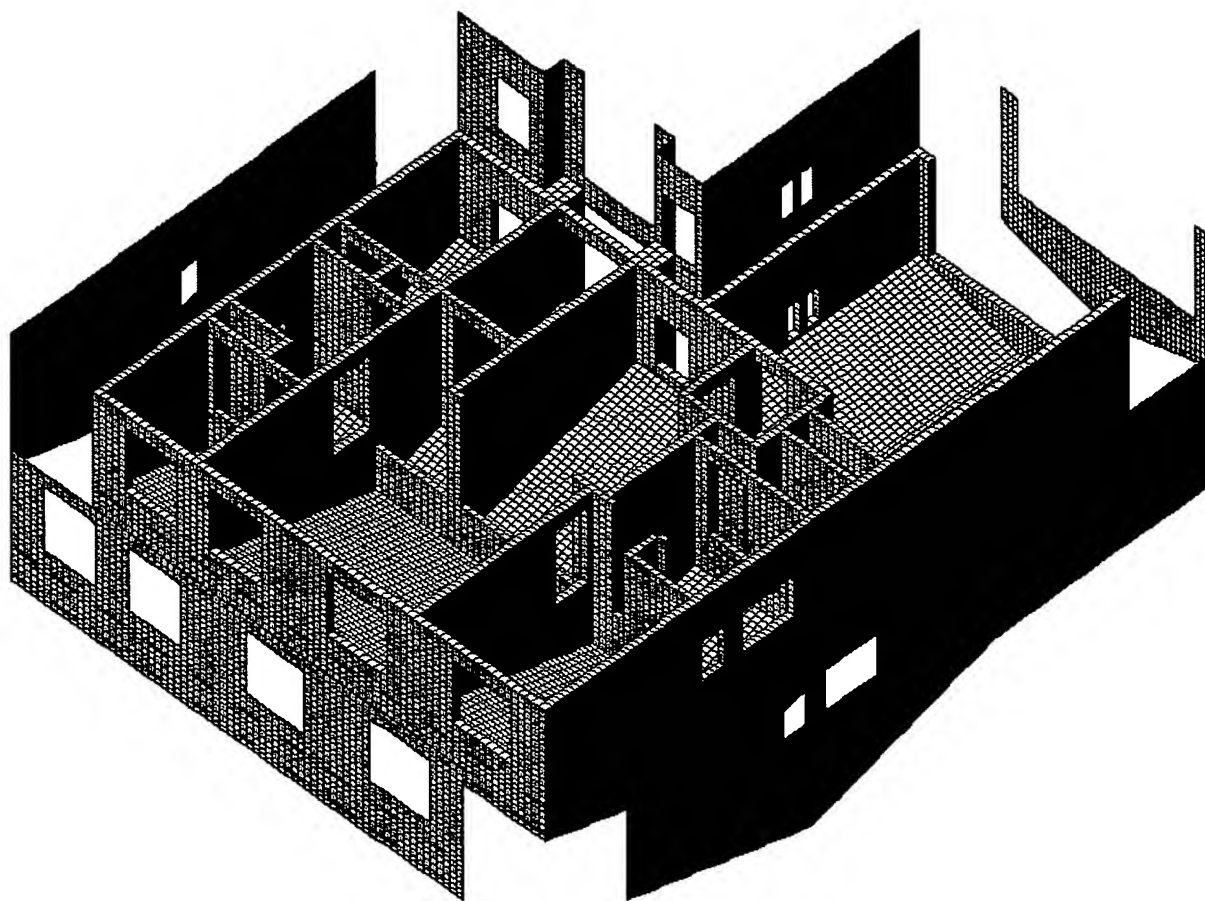


Fig.79

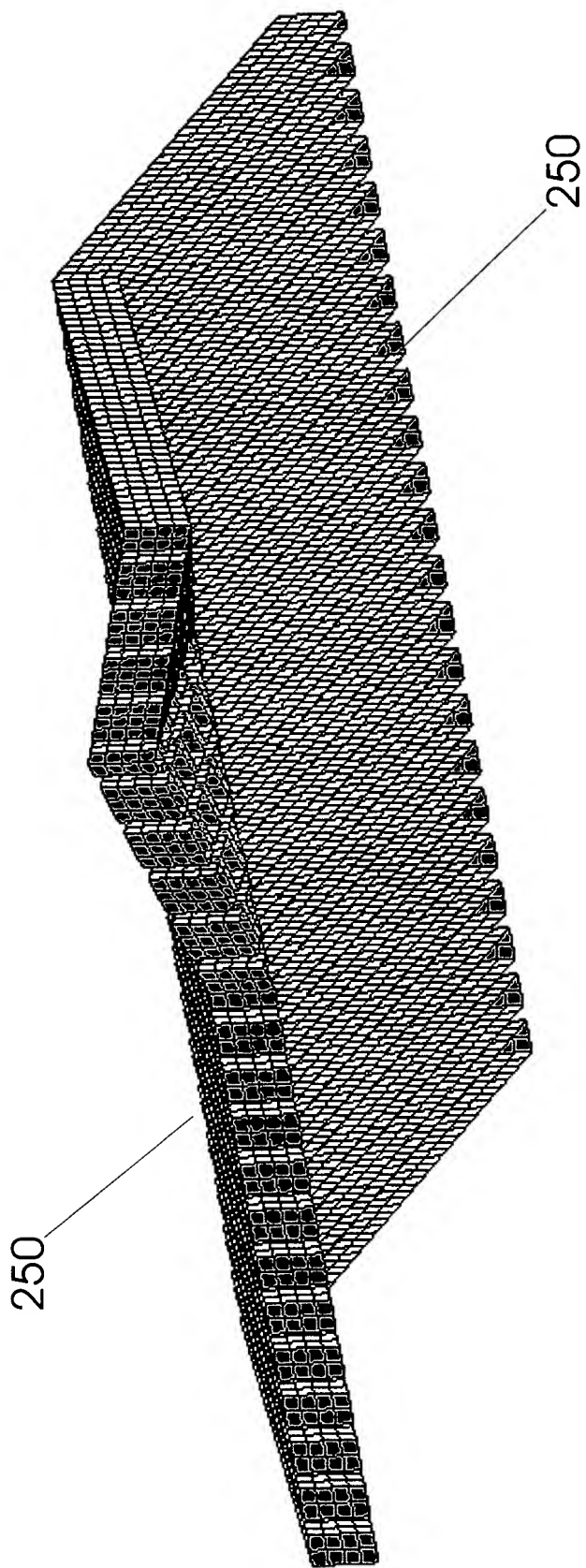


Fig.80

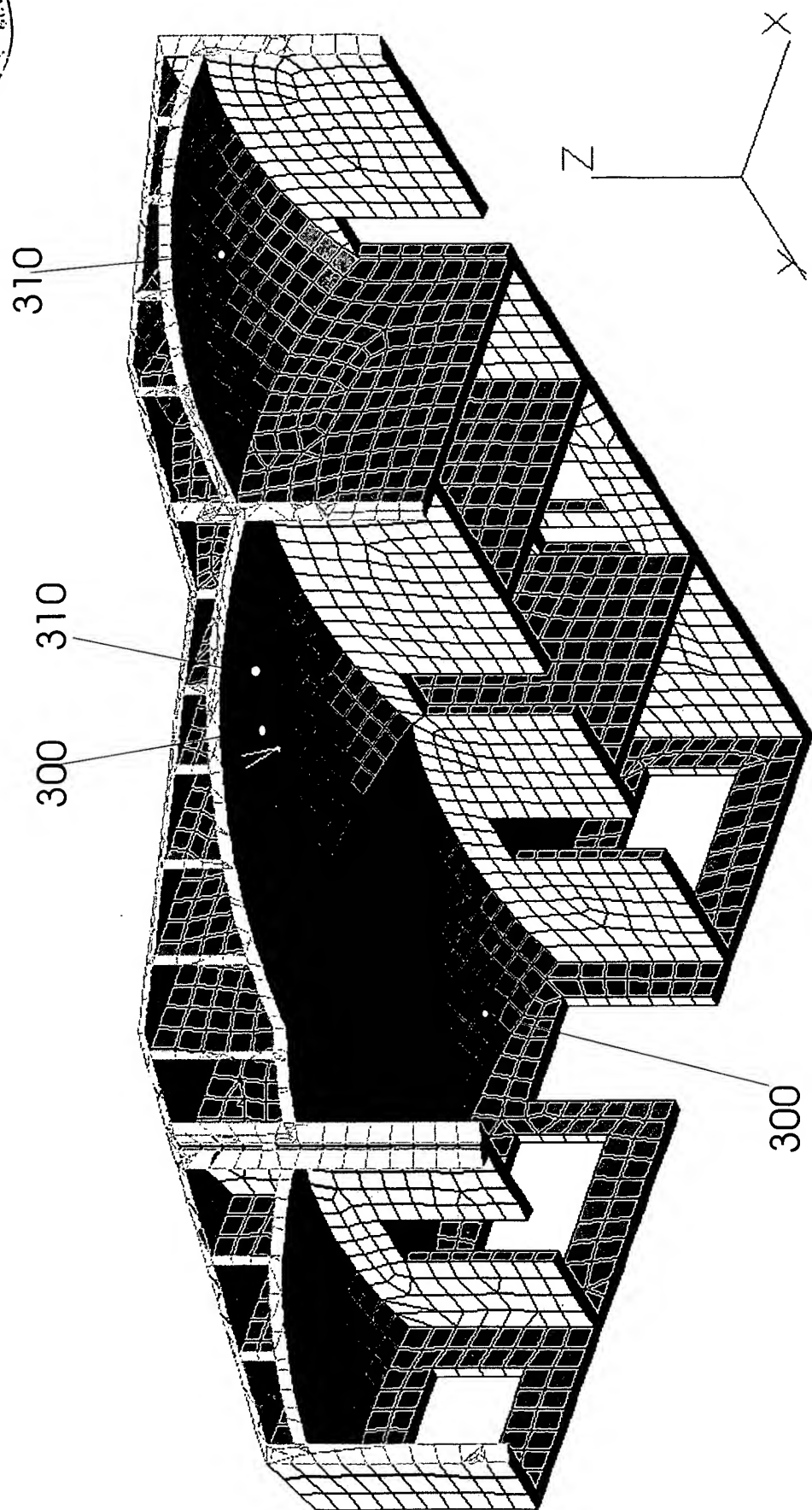


Fig.81

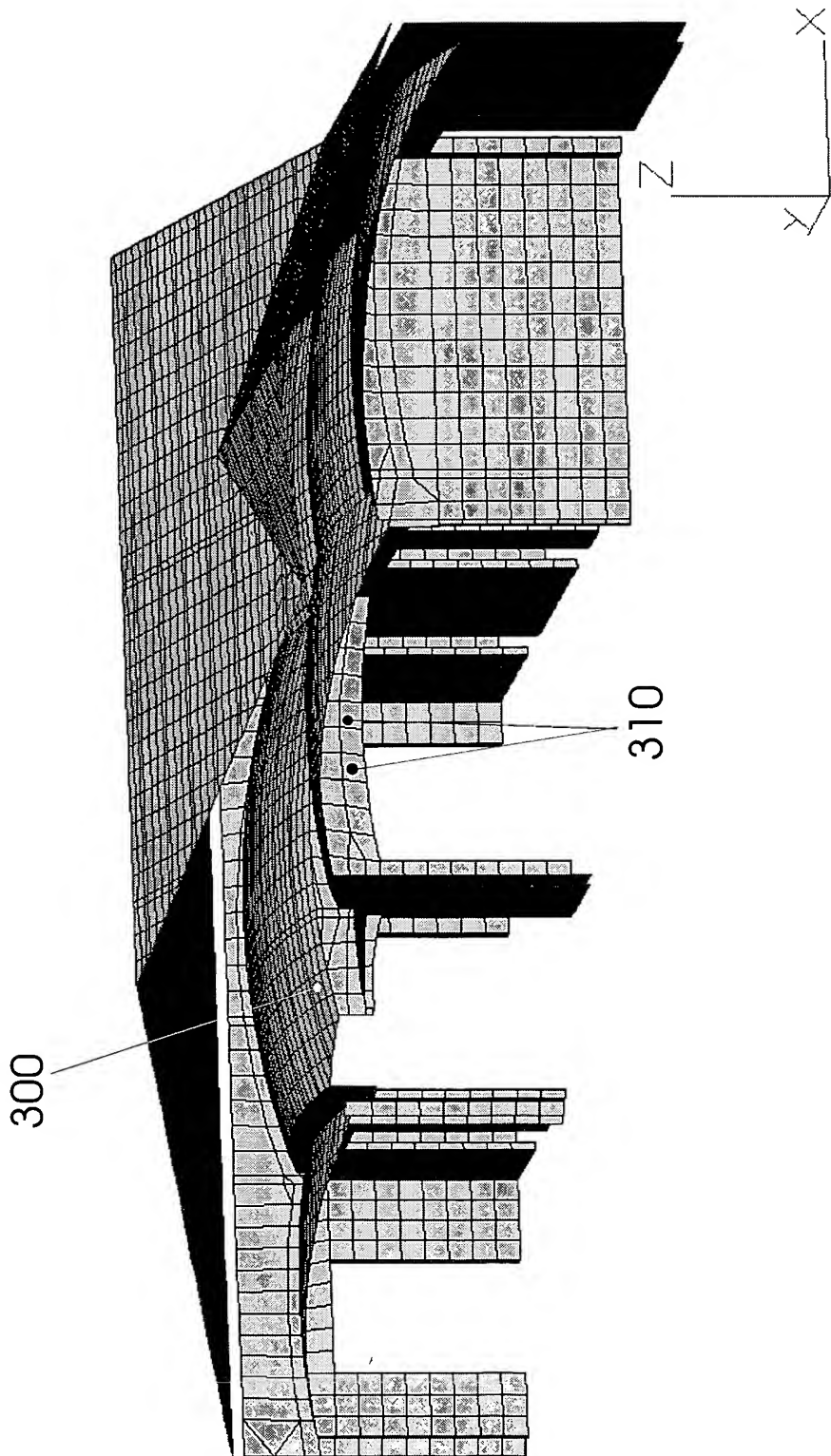


Fig. 82

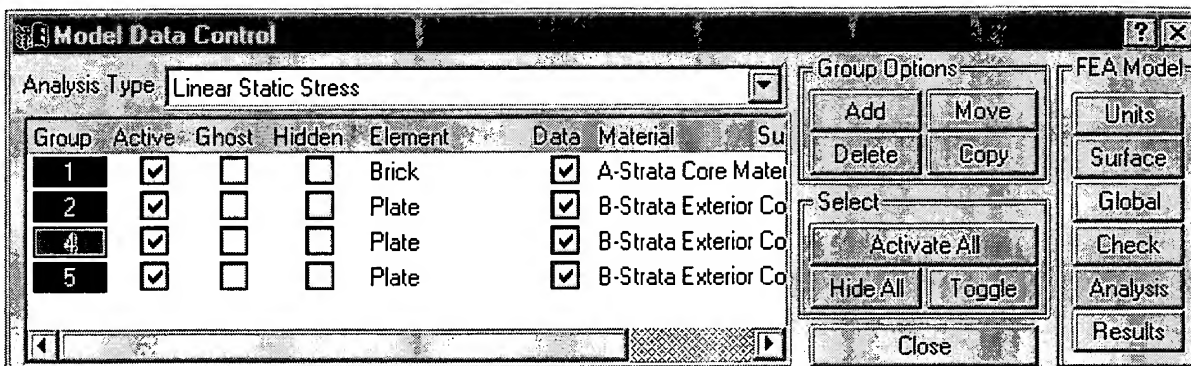


Fig.83

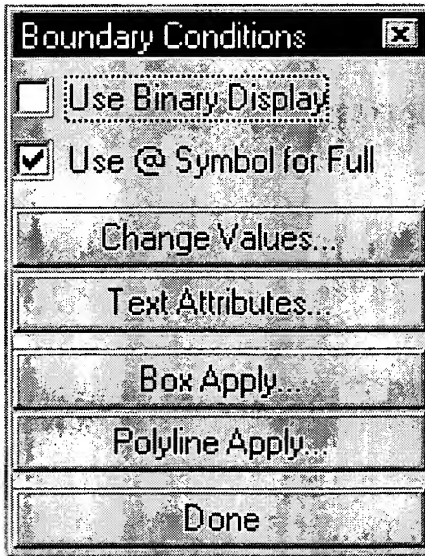


Fig.84

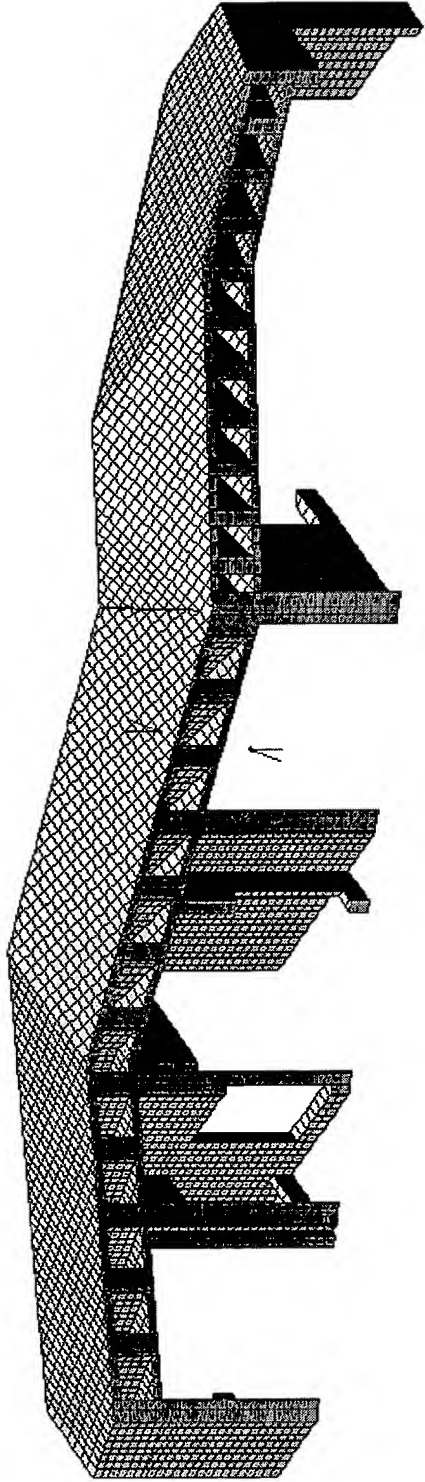


Fig. 85

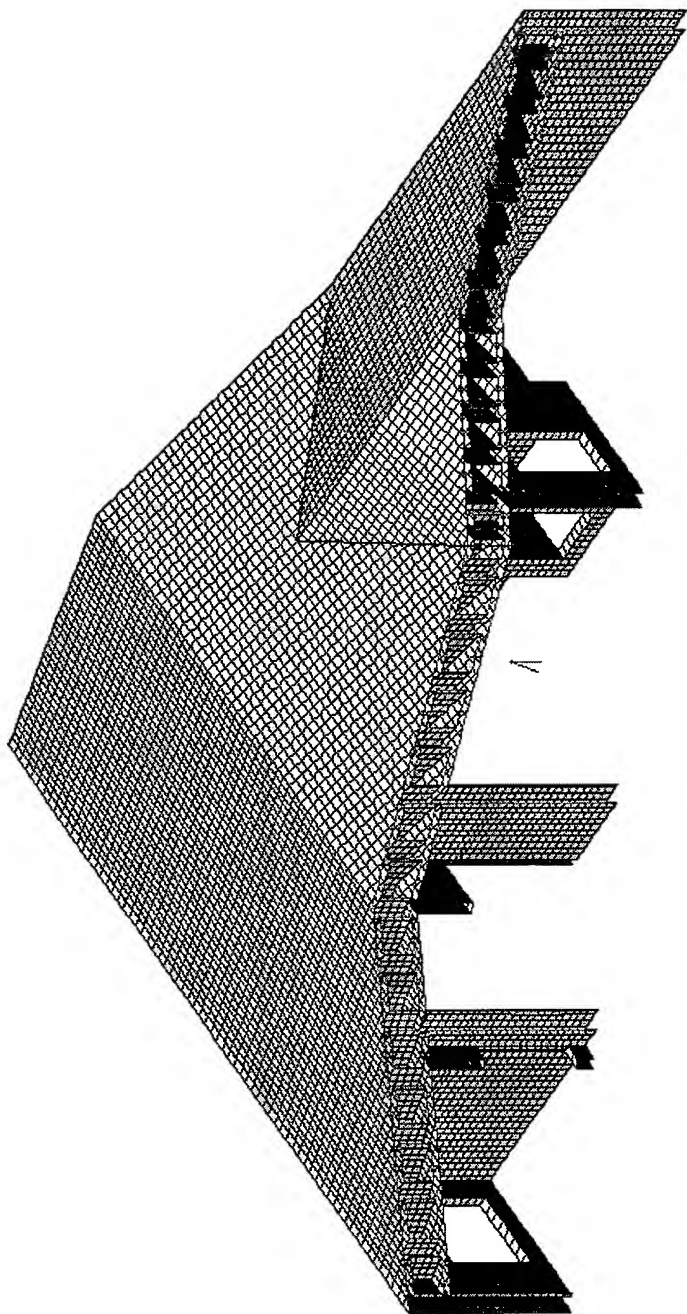


Fig.86



Material Property Entry

Material Library: NS Technology Material Model: Standard

Material Name: A-Strata Core Material

Material Description: None

Unlock Properties

Elastic Properties		General Properties	
Modulus of Elasticity	280 lbf/in <sup>2</sup>	Damping	0 s
Poisson's Ratio	0.126	Densities	
Shear Modulus of Elasticity	124 lbf/in <sup>2</sup>	Mass Density	2.02187e-6 lbf*s <sup>2</sup> /in <sup>3</sup>
Thermal Coefficient of Expansion	0.000035 1/F	Electrical Properties	
Plastic Properties		Electrical Conductivity	0 A/(V*in)
Ultimate Stress	0 lbf/in <sup>2</sup>	Dielectric Constant	0
Yield Stress	0 lbf/in <sup>2</sup>	Thermal Properties	
Elongation at 2 in.	0 %	Thermal conductivity	0 in*bf/(s*in**F)
		Specific heat	0 in*bf/(lbf*s <sup>2</sup> /in**F)

Reload From Library Reset From Defaults

OK Cancel Apply Print

Fig.87

Material Property Entry

Material Library: NS Technology Material Model: Standard

Material Name: B-Strata Exterior Coating

Material Description: None

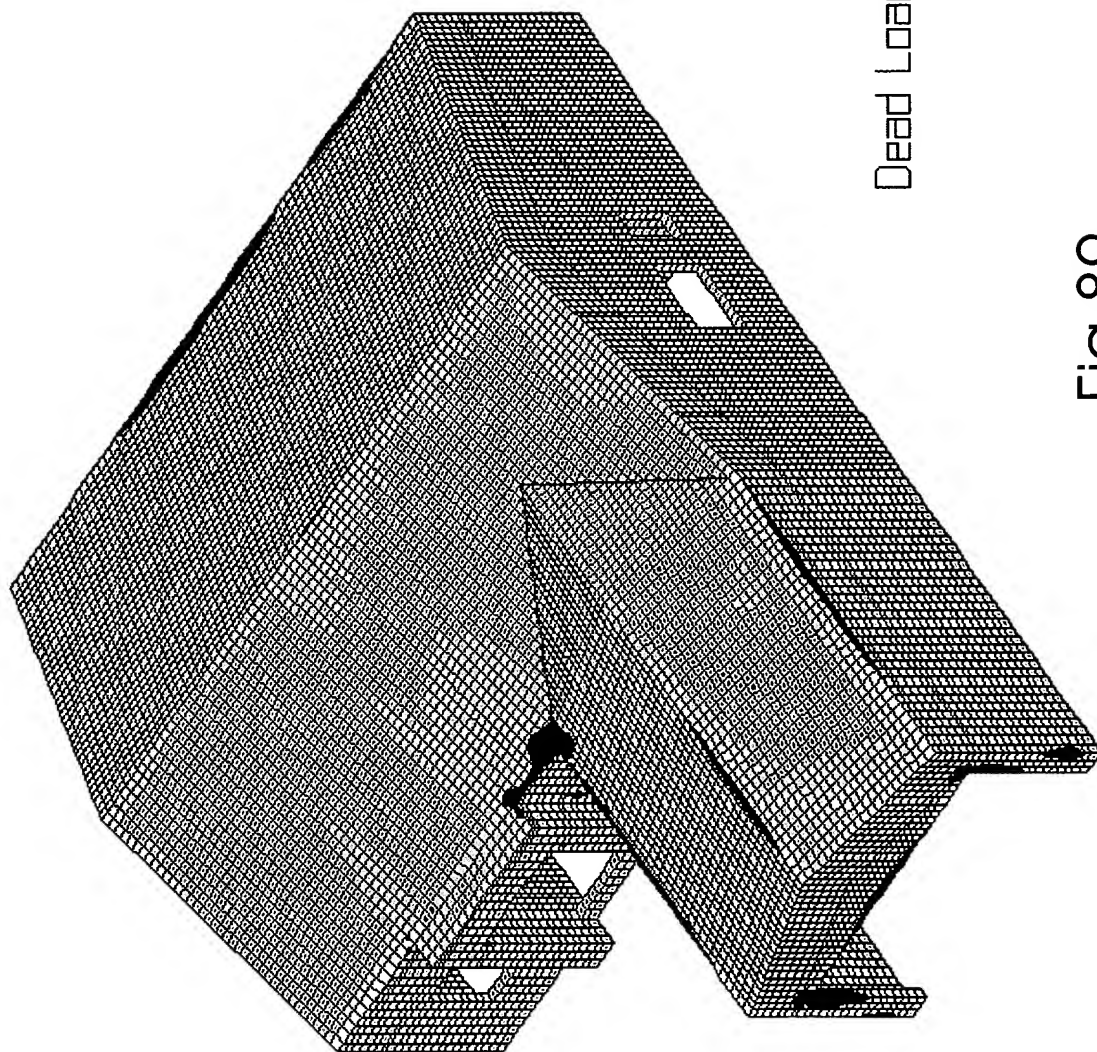
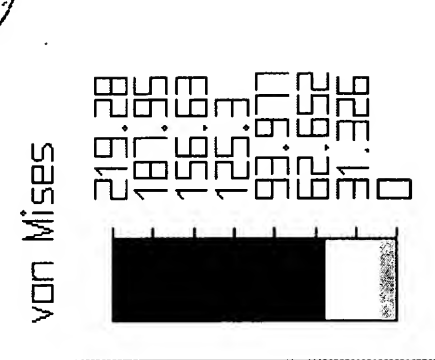
Unlock Properties

Elastic Properties		General Properties	
Modulus of Elasticity	2.5e6 lbf/in <sup>2</sup>	Damping	0 s
Poisson's Ratio	0.18	Densities	
Shear Modulus of Elasticity	2.12e6 lbf/in <sup>2</sup>	Mass Density	1.947e-4 lbf*s <sup>2</sup> /in <sup>3</sup>
Thermal Coefficient of Expansion	9e-6 1/F	Electrical Properties	
Plastic Properties		Electrical Conductivity	0 A/(V*in)
Ultimate Stress	3000 lbf/in <sup>2</sup>	Dielectric Constant	0
Yield Stress	1200 lbf/in <sup>2</sup>	Thermal Properties	
Elongation at 2 in.	0 %	Thermal conductivity	0 in*bf/(s*in**F)
		Specific heat	0 in*bf/(lbf*s <sup>2</sup> /in**F)

Reload From Library Reset From Defaults

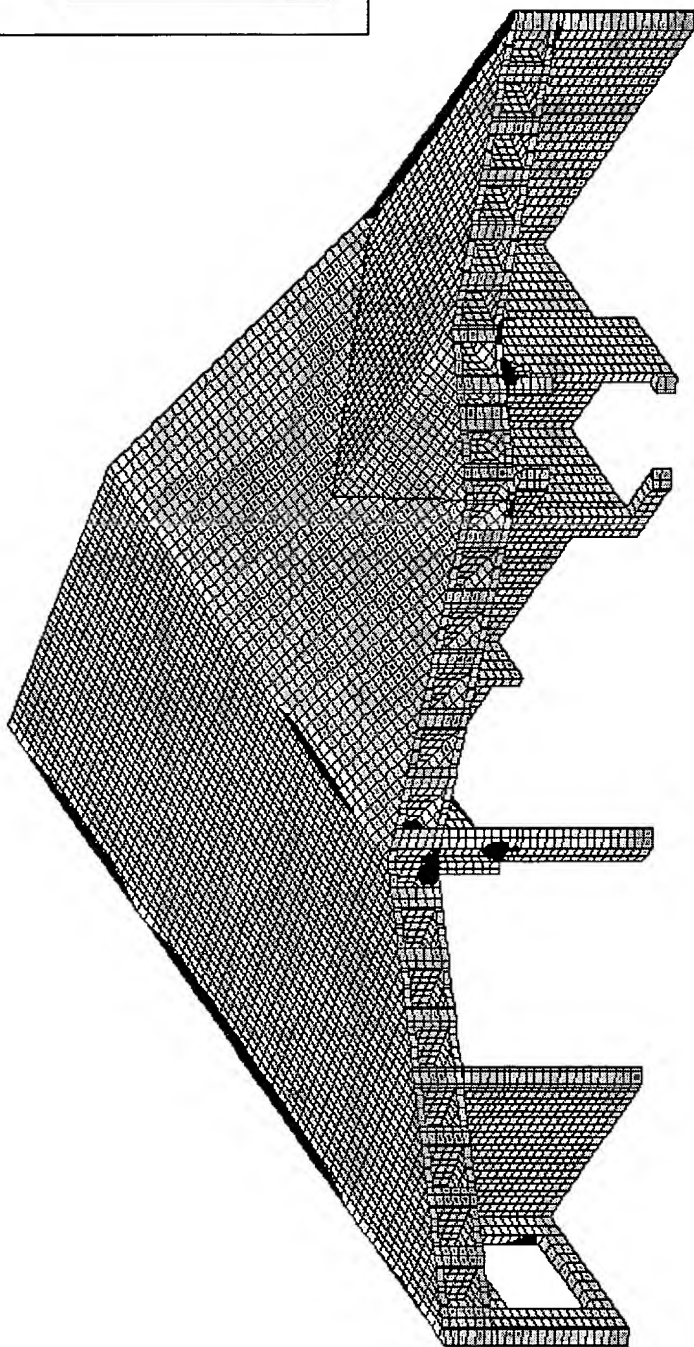
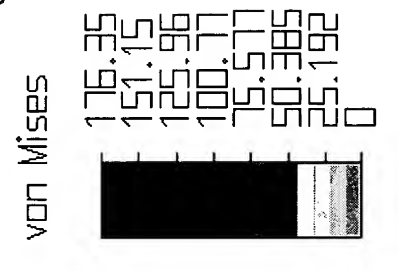
OK Cancel Apply Print

Fig.88



Dead Load Stress, psi

Fig.89

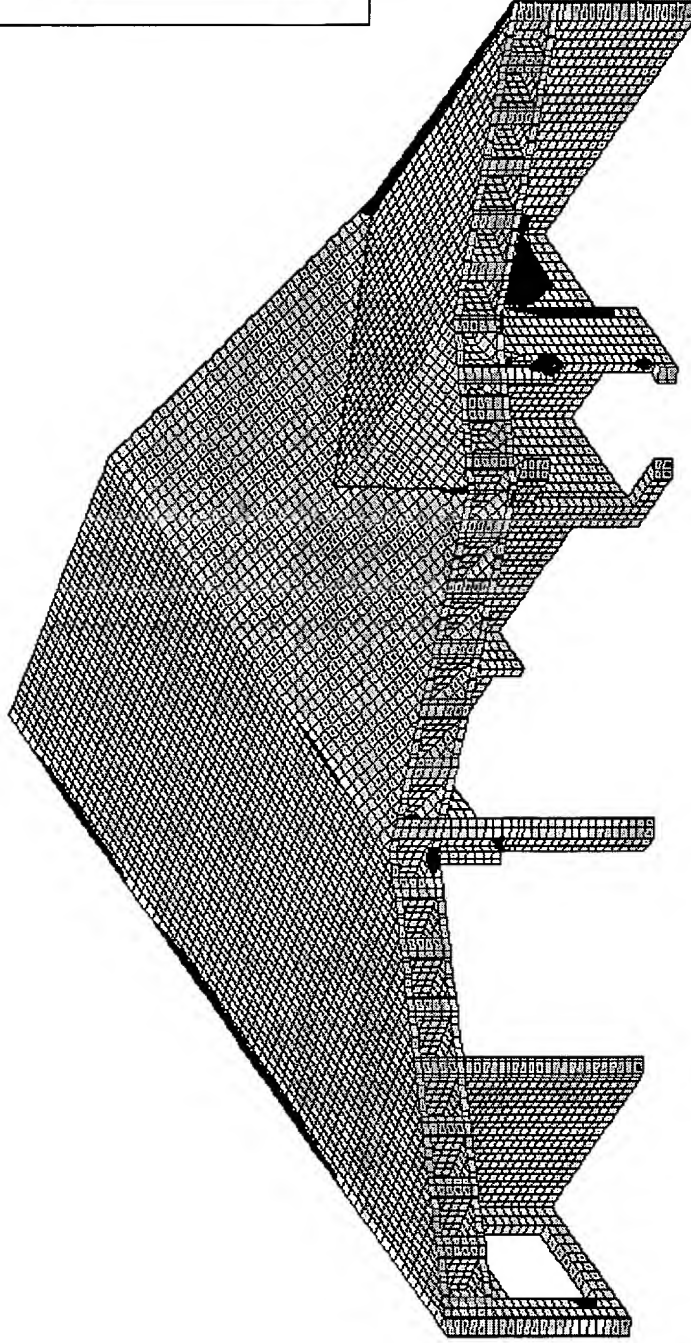
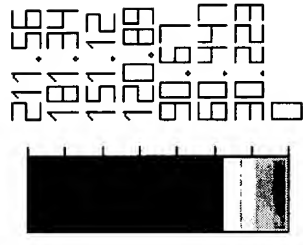


Dead Load Stress, psi

Fig.90



VON Mises



Wind Load Stress, psi

Fig.91

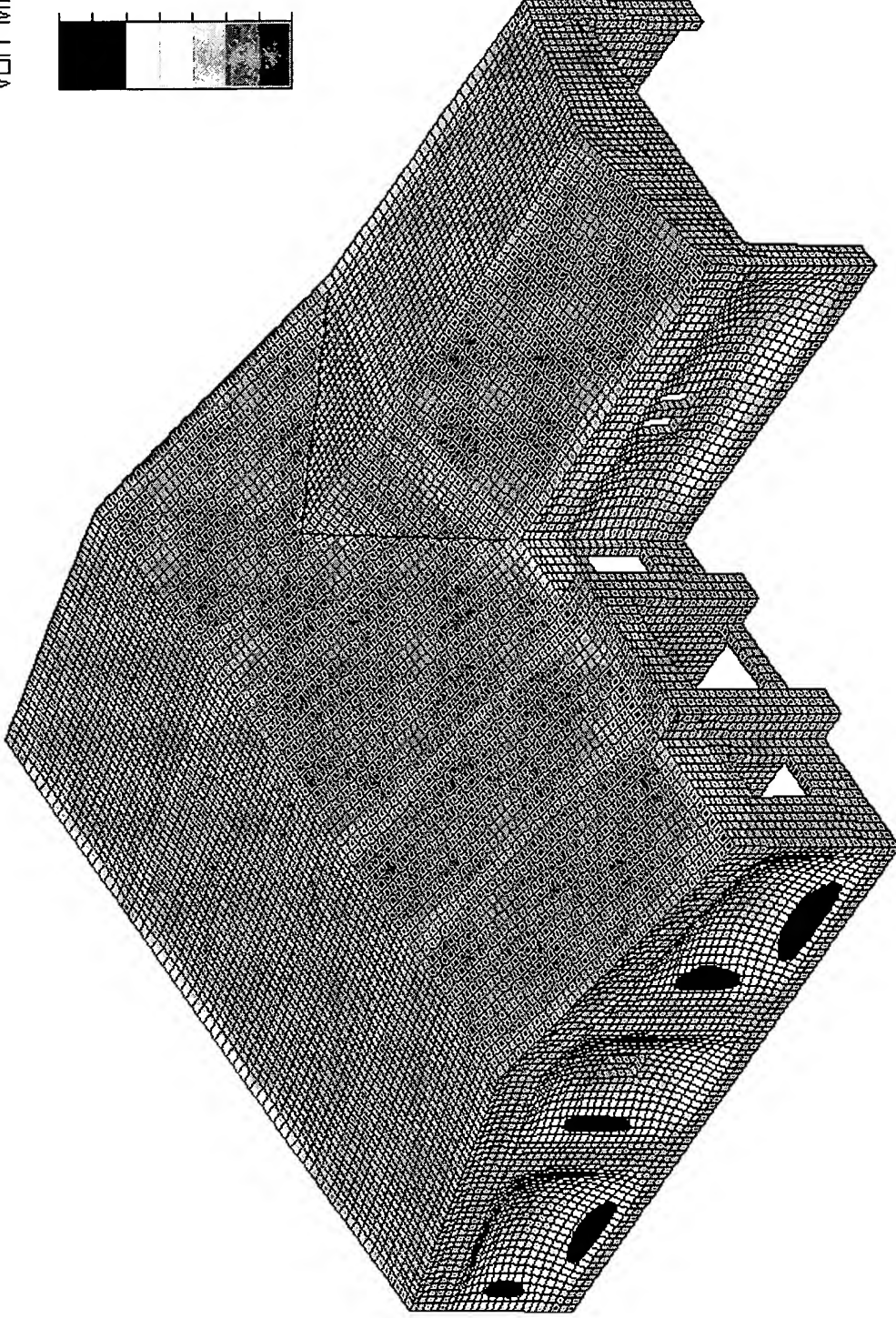
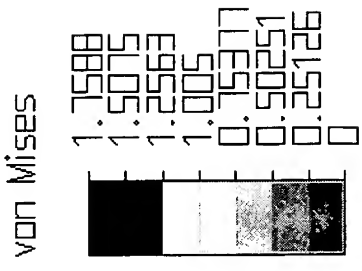
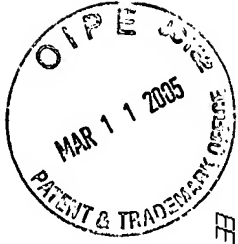
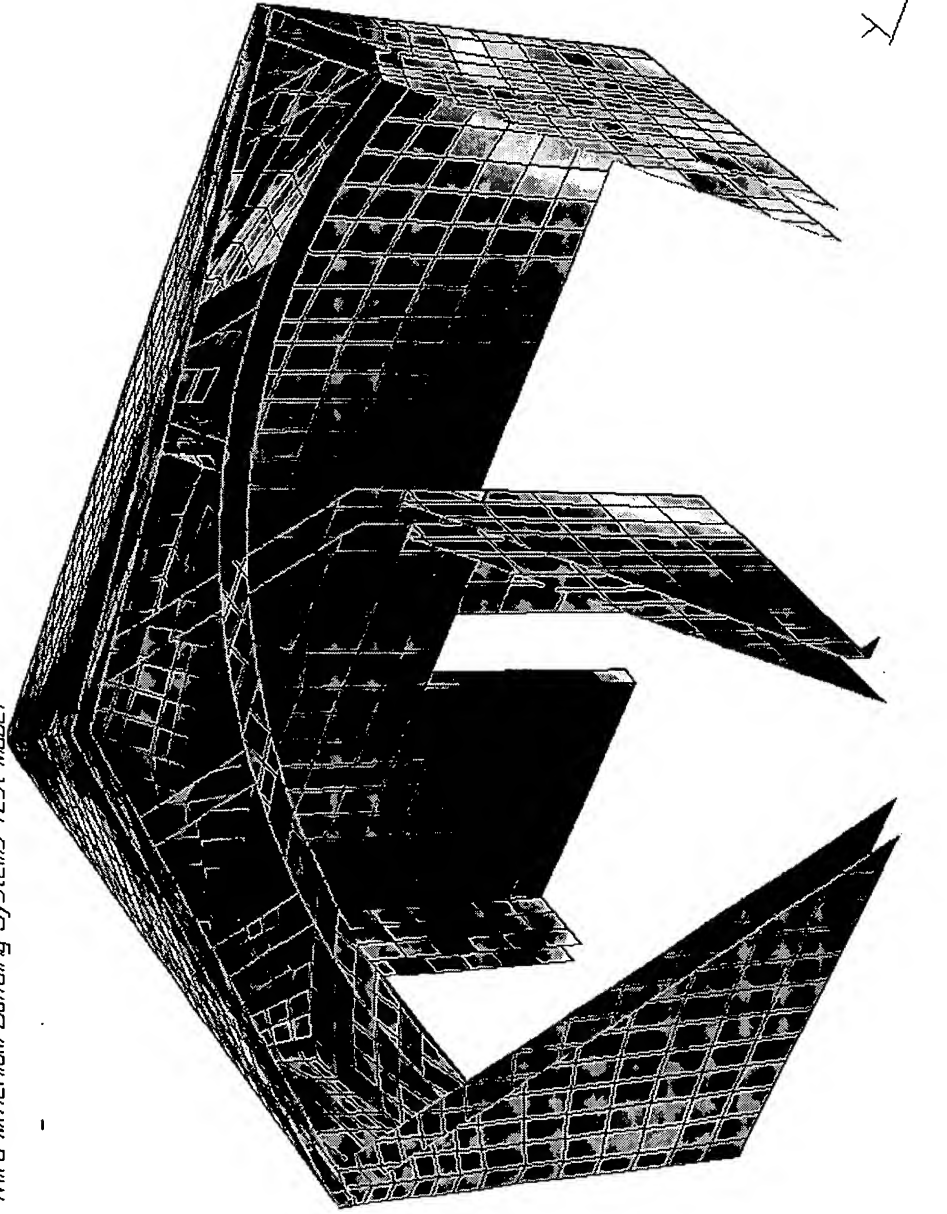
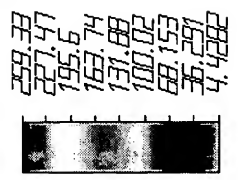


Fig.92



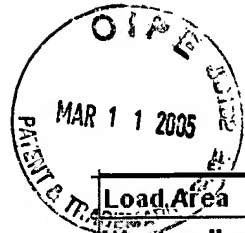
von Mises



Strata Third Millenium Building Systems Test Model

Scale: 1.00e+000, Step: 225, Time: 4.5 sec  
by Integra Engineering, 27-NOV-2000 05:22

Fig.93



Load Area	Area, in2	# of Nodes	F/Node	Window	Window Nodes	F/Nodes	Case
West wall	78,630	2019	6.76	955.08	20	8.29	2 & 4
Entrance Left	3,802	92	7.17				
Garge Lower	36,314	738	8.54	672	16	7.29	2 & 4
Garage Roof	12,351	979	2.19				2 & 4
Snow Garage Roof	81,846	1903	8.96				3
Snow Garage Roof	81,846	1903	6.72				4
Snow Main Roof	235,000	5275	9.28				3
Snow Main Roof	235,000	5275	6.96				4
Single LL			300				5

Fig.94

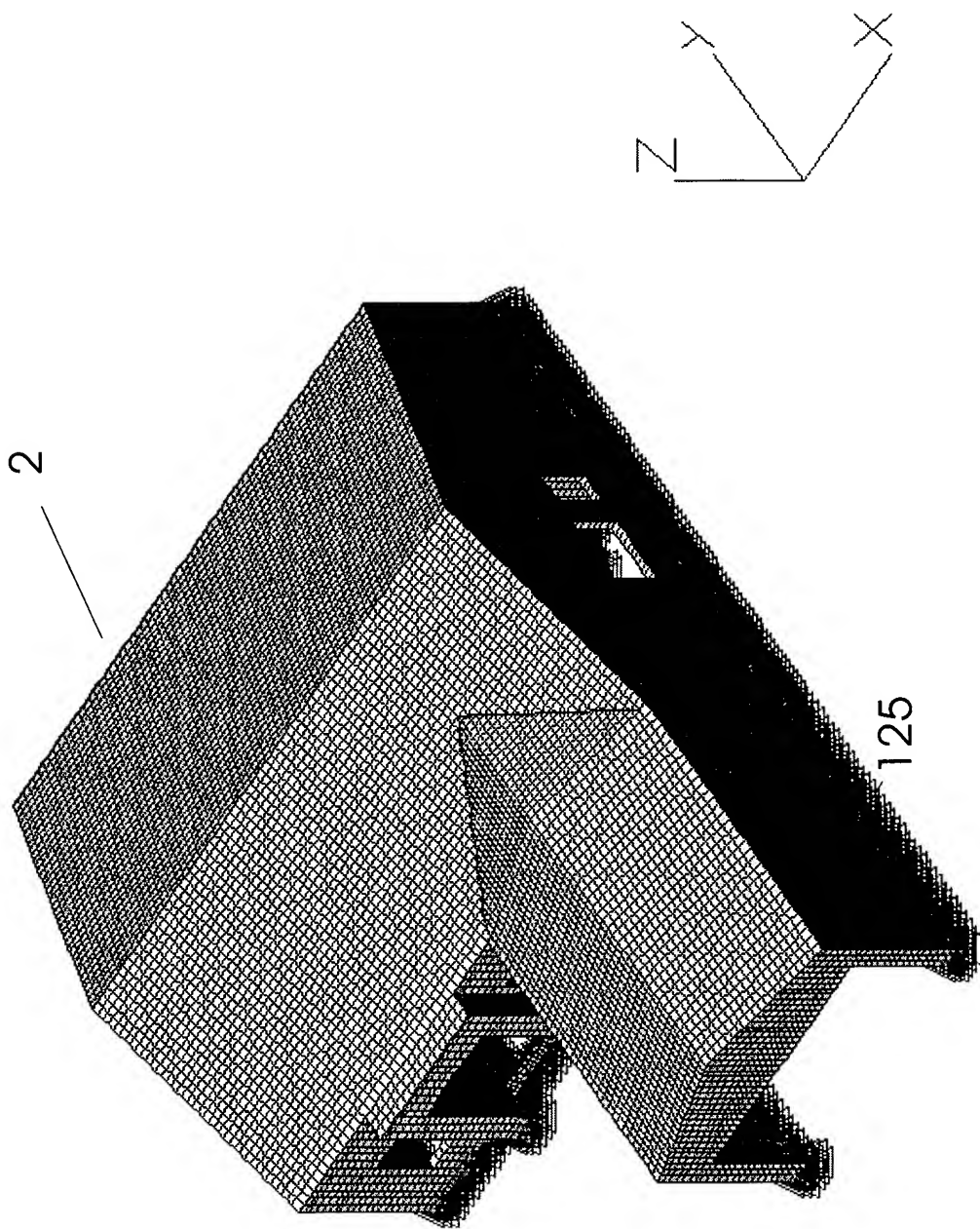


Fig. 95



von Mises

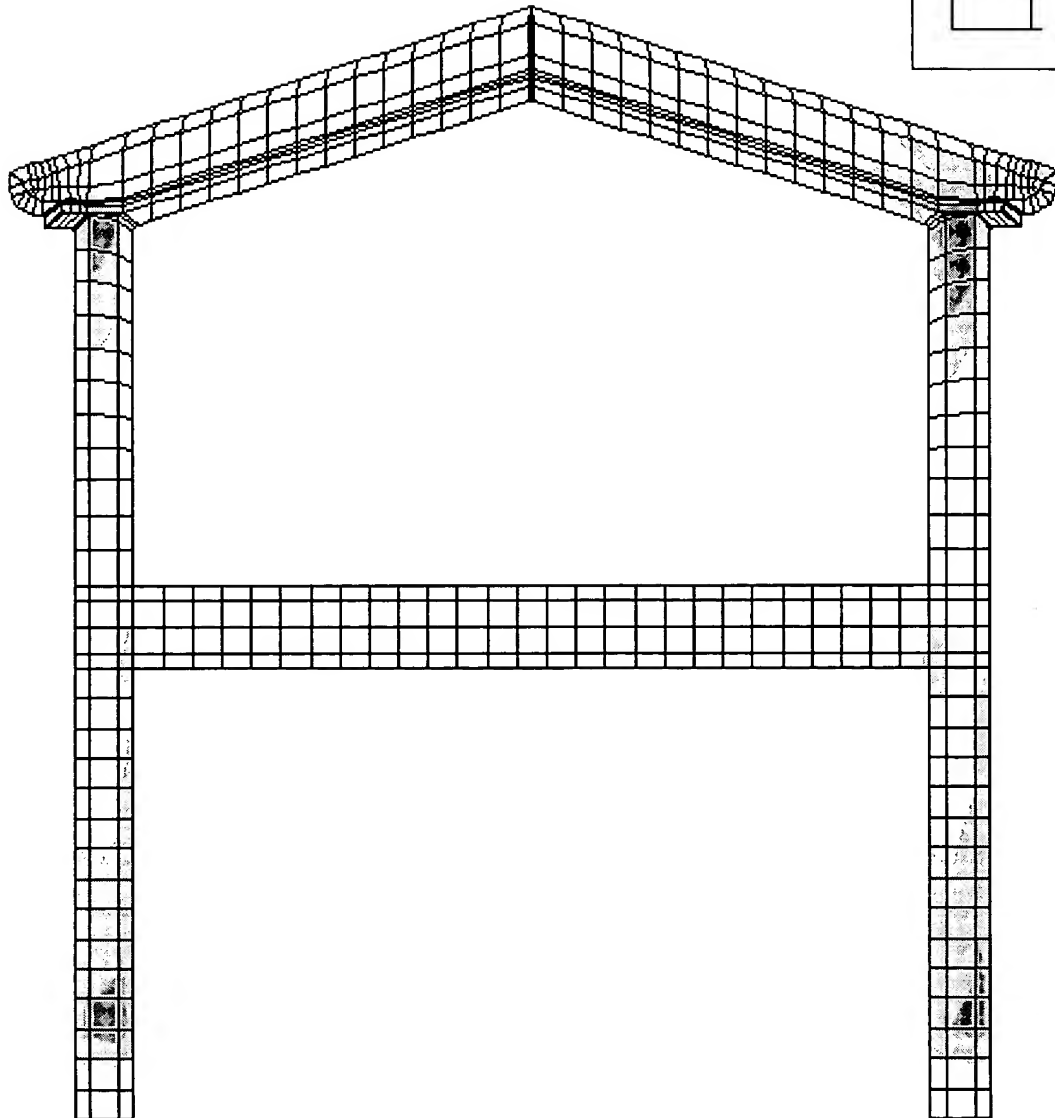
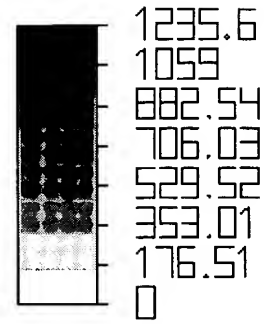


Fig.96



Displacement

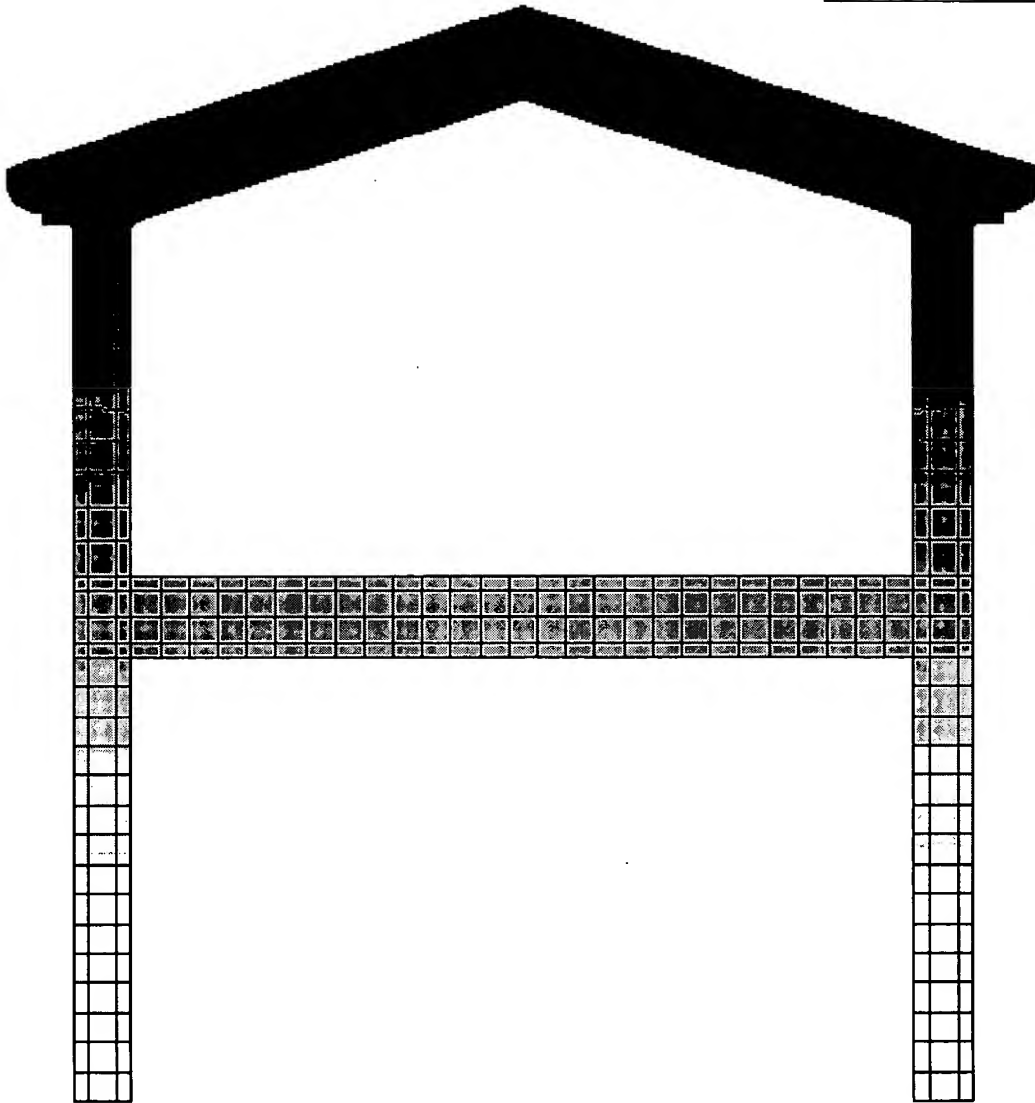
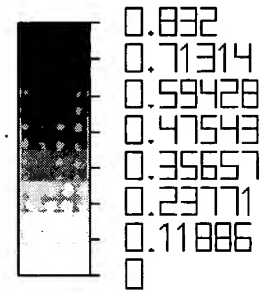


Fig.97

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